

ESMC2009

7th EUROMECH Solid Mechanics Conference

Instituto Superior Técnico
Lisbon, Portugal. September 7-11, 2009

PROGRAMME

Lisbon 2009

Welcome

On behalf of European Mechanics Society (EUROMECH) we are pleased to welcome you to Lisbon for the 7th EUROMECH Solid Mechanics Conference held at Instituto Superior Técnico of the Technical University of Lisbon.

EUROMECH has the objective to engage in all activities intended to promote in Europe the development of mechanics as a branch of science and engineering. Activities within the field of mechanics range from fundamental research to applied research in engineering. The approaches used comprise theoretical, analytical, computational and experimental methods. Within these objectives, the society organizes the EUROMECH Solid Mechanics Conference every three years. Following the very successful Conferences in Munich, Genoa, Stockholm, Metz, Thessaloniki and Budapest, the 7th EUROMECH Solid Mechanics Conference (ESMC2009) is now held in Lisbon. The purpose of this Conference is to provide opportunities for scientists and engineers to meet and to discuss current research, new concepts and ideas and establish opportunities for future collaborations in all aspects of Solid Mechanics.

We invite you to be an active participant in this Conference and to contribute to any topic, or mini-symposium, of your scientific interest. By promoting a relaxed atmosphere for discussion and exchange of ideas we expect that new paths for research are stimulated and promoted and that new collaborations can be fostered. We hope that the 7th EUROMECH Solid Mechanics Conference will have an important impact on the research in all topics included in its programme.

We want to express our appreciation to all members of the committees involved in the preparation of this Conference, to all mini-symposia organizers who identified and promoted some of the most active topics of research in Solid Mechanics, to all the staff who are managing the different aspects of the Conference and to all the contributing authors and participants who will create the real Conference. We hope that all of you feel rewarded for your participation and contribution.

Yours Sincerely,

Jorge A.C. Ambrósio
ESMC2009 Chairman

Ray W. Ogden
ESMC Committee Chairman

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Conference Organization

EUROMECH Solid Mechanics Conference Committee

R.W. Ogden (University of Glasgow, United Kingdom)
 D. Bigoni (University of Trento, Italy)
 R. De Borst (Technical University of Delft, The Netherlands)
 C. Glocker (ETH Zurich, Switzerland)
 P. Gudmundson (Royal Institute of Technology, Sweden)
 H. Irschik (University of Linz, Austria)
 M. Kurutz (Technical University of Budapest, Hungary)
 N. Morozov (St. Petersburg University, Russia)
 M. Raous (University Aix-Marseille, France)
 V. Ulbricht (Technical University of Dresden, Germany)

Organizing Committee

J. Ambrósio, Chairman (Technical University of Lisbon, Portugal)
 J. César Sá (University of Porto, Portugal)
 J. M. Cirne (University of Coimbra, Portugal)
 P. Flores (University of Minho, Portugal)
 J. Martins[†] (Technical University of Lisbon, Portugal)
 P. Martins (Technical University of Lisbon, Portugal)
 C.A. Mota Soares (Technical University of Lisbon, Portugal)
 A. Ramalho (University of Coimbra, Portugal)
 H.C. Rodrigues (Technical University of Lisbon, Portugal)
 J. Sá da Costa (Technical University of Lisbon, Portugal)
 M. Seabra Pereira (Technical University of Lisbon, Portugal)
 M. Silva (Technical University of Lisbon, Portugal)
 J. Silva Gomes (University of Porto, Portugal)
 L. Sousa (Technical University of Lisbon, Portugal)

Sponsors

FCT – Fundação para a Ciência e Tecnologia
 UTL – Universidade Técnica de Lisboa
 IST – Instituto Superior Técnico
 IDMEC – Instituto de Engenharia Mecânica

Organizing Institutions

EUROMECH – European Mechanics Society
 APMTAC – Associação Portuguesa de Mecânica Teórica, Aplicada e Computacional

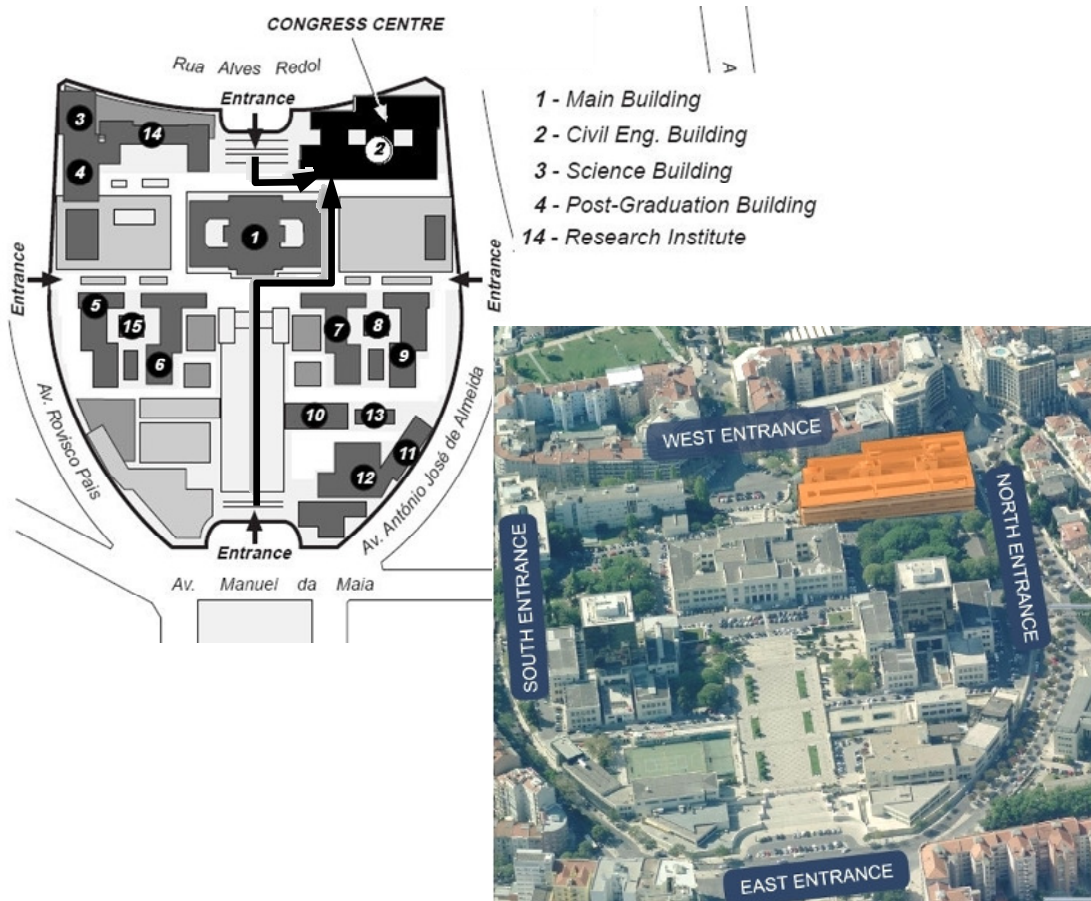
Prizes for Best Paper and Best Poster

Two Young Scientist Prizes - young researchers with ages under 35 - will be awarded during the closing ceremony for Best Oral Presentation and Best Poster. During registration, participants under the age of 35 responsible for the oral or poster presentation will return a form stating to be in conditions to be considered for the prizes.

Location

The 7th EUROMECH Solid Mechanics Conference takes place in the Instituto Superior Técnico (IST) Congress Center situated at the Department of Civil Engineering and Architecture (Pavilhão de Civil) with the address:

Congress Center (Civil Engineering Building)
Instituto Superior Técnico
Av. Rovisco Pais 1
1049-001 Lisboa



Registration Open Hours

Sunday, September 6,	16:00-19:00
Monday, September 7,	08:00-18:00
Tuesday, September 8,	08:30-18:00
Wednesday, September 9,	08:30-18:00

Secretariat

Ms Paula Jorge
IDMEC Instituto Superior Técnico
Av. Rovisco Pais 1
1049-001 Lisboa Portugal
Tel: +351 218419044 Fax: +351 218417915
e-mail: esmc2009@dem.ist.utl.pt

More detailed information on the 7th EUROMECH Solid Mechanics Conference
home page: www.dem.ist.utl.pt/esmc2009

General Information and Social Programme

Get-together Party

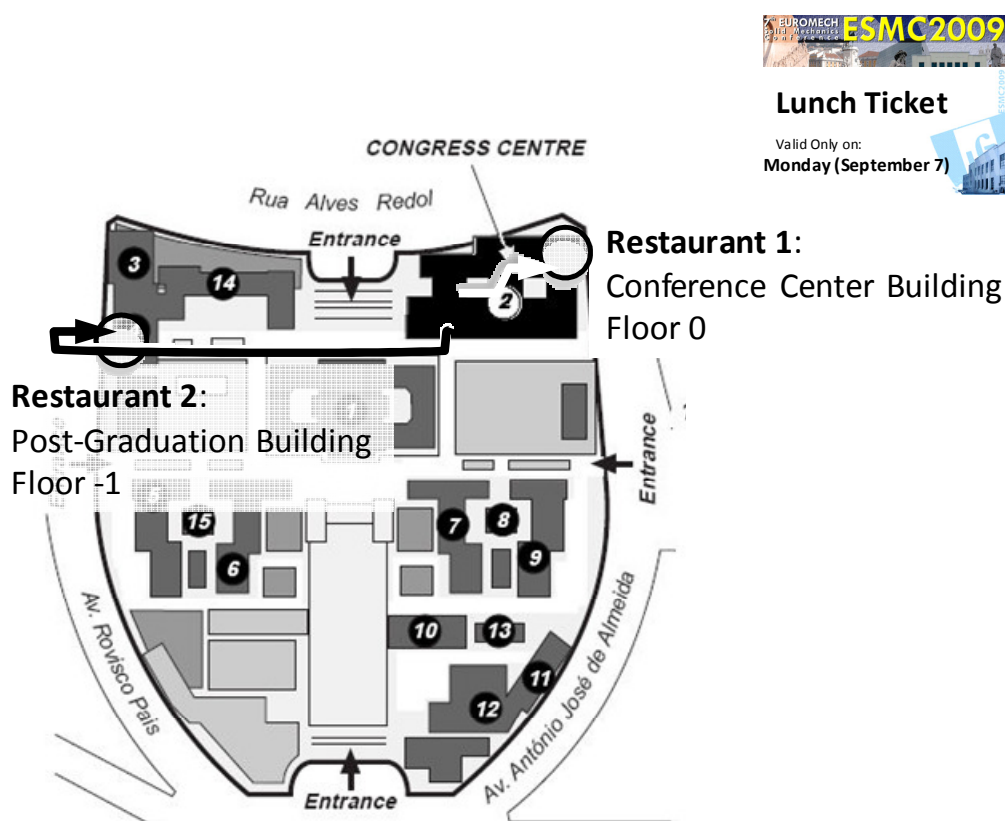
A get-together party takes place Sunday, September 6, at the Conference Center from 18:00 until 19:30. The registration booth will be open until 19:00. The get-together is open to all participants and accompanying persons.

Coffee-Breaks

The coffee-breaks will take place in the halls 1 and 2 of the Conference Center (See map of conference center) and will be open to all participants and accompanying persons. Kindly wear your Conference Badge.

Lunches

The Lunch tickets included in the package received during the registration will be honored at the two restaurants marked in the map below. Note that the lunch tickets have different colors for the different days of the conference being valid only for the day printed in the front (see specimen below).

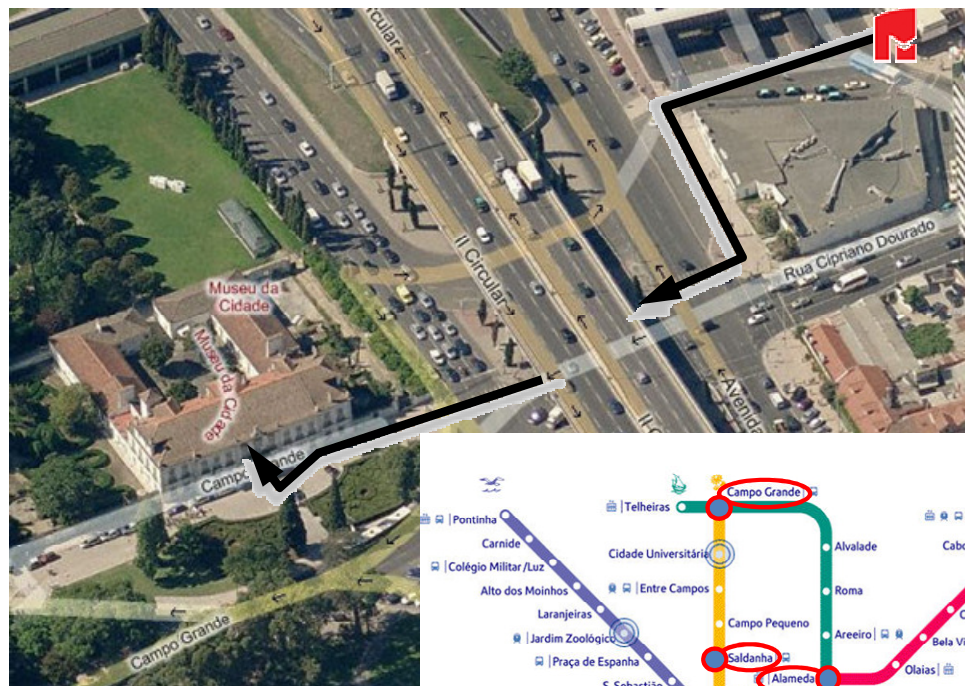


Conference Reception

The Conference reception, offered by the Lisbon City Hall, will take place at Museu da Cidade (Campo Grande, www.museudacidade.pt) on September 7, Monday, from 19:00 until 20:00. All participants and accompanying persons are invited.

Information on Museu da Cidade:

The compelling Museu da Cidade tells the story of Lisbon's long history through prehistoric, Roman, Visigothic, Moorish, and medieval remains. It is located in the 18th century Pimenta Palace, built as a gift for King João V's mistress. Highlights include an enormous model of pre-earthquake Lisbon, maps and prints from before and after the quake, and tile panels of city scenes. Also interesting are engravings of the Inquisition and of Catherine of Bragança departing from Lisbon to marry England's Charles II. There is also a lovely courtyard with peacocks wandering around.



Transportation (use the invitation for instructions):

By Metro (about 30 min from IST to the Museum):

- Start at Alameda or at Saldanha Metro station
- Exit at Campo Grande Metro Station
- Exit the Station (opposite to the football stadium)
- Cross the street (under the freeway) walk 300 m and the Museu da Cidade is on your right side

By Taxi (10 min)

- The ride should take 5-10 min and should be less than 5€ from IST.

Conference Tour

Thursday, September 10

14:00 - Buses depart from IST to Évora

15:30 – Expected arrival at Évora

15:30 – 19:30 – Free time in Évora to explore the city

19:30 – Gathering at the Restaurante do Jardim do Paço for the Banquet

Évora,

Capital of Alto Alentejo, city of an outstanding beauty, embraced by its fortress walls, filled with historic memories. Its squares and monuments tell us national history, religion and culture episodes and its townsfolk are proud of both past and present times. The variety of architectural styles (roman, gothic, manueline, mannerist, baroque), the palaces and even the squares and narrow streets are all part of the rich heritage of this museum-city. The natural beauty of this region combines with the monumental richness of this town-museum that nowadays is also a modern and touristy city, classified by UNESCO, since 1986, World Heritage.



Inhabited since the Neolithic period, the landscape that surrounds the city presents important monuments, such as the Cromeleque dos Almendres (cromlech) and the Anta Grande do Zambujeiro (dolmen). The Romans were those who transformed Évora into an imperial town. They called it Eborá, named after Julio Cesar as Liberalitas Julia, and left several signs of their passage, from which the roman

temple, known improperly as "Templo de Diana", stands out. In 715 AD, the city was conquered by the Arabs but there are only a few archaeological evidences of that time. In 1165, Giraldo Sem Pavor (Fearless Giraldo) conquered Évora from the Moor for D. Afonso Henriques, the first Portuguese King. The importance of Evora is undeniable along the centuries: during the Avis Dynasty (1385-1580) the city became the chosen place of the court, which settled here frequently.

Cardinal King D. Henrique founded, in 1551, the Colégio do Espírito Santo (Holly Spirit College), which became the Évora University in 1559, when it received Rome's approval. In 1759 it was closed by order of Marquês de Pombal, on the Jesuits expulsion, reopening again in 1973.



Banquet

Thursday, September 10

19:30 – Gathering at Restaurante Jardim do Paço

22:30 – Buses depart from the Restaurant back to Lisbon

About gastronomy of Alentejo:

In Alentejo the wine production areas are spread throughout a large area, with distinguished regions producing excellent wines. Évora, Redondo, Borba, Reguengos and Serpa have a huge variety of quality wines. The rich Alentejo gastronomy is comparable to its wines and the hardest thing will be choosing. The cheeses Serpa and Nisa, the sausages, the fish soups, beldroegas or gaspacho are only some of the possible starters. Lamb and pork dominate. A delicious dish is Migas, made with cod, tomatoes and clams or only with garlic and parsley. It is important to remember that knowing a country through its wines and gastronomy is only one way to meet its people and share their daily life and experiences. What makes it very special is when families who have lived in these places for many generations and preserve traditions, pass on their knowledge and wisdom and receive you like one of their own

Location of Restaurant:



Optional Tours

Registration to optional tours together with conference registration

Tour 1 - Sintra, Cascais, Estoril (Half day). Sep. 7th, 2:00 pm

Tour 2 - Lisbon (Half day). Sep. 8th, 9:00 am

Tour 3 - Lisbon by Night (Dinner and Fado). Sep. 8th, 7:30 pm

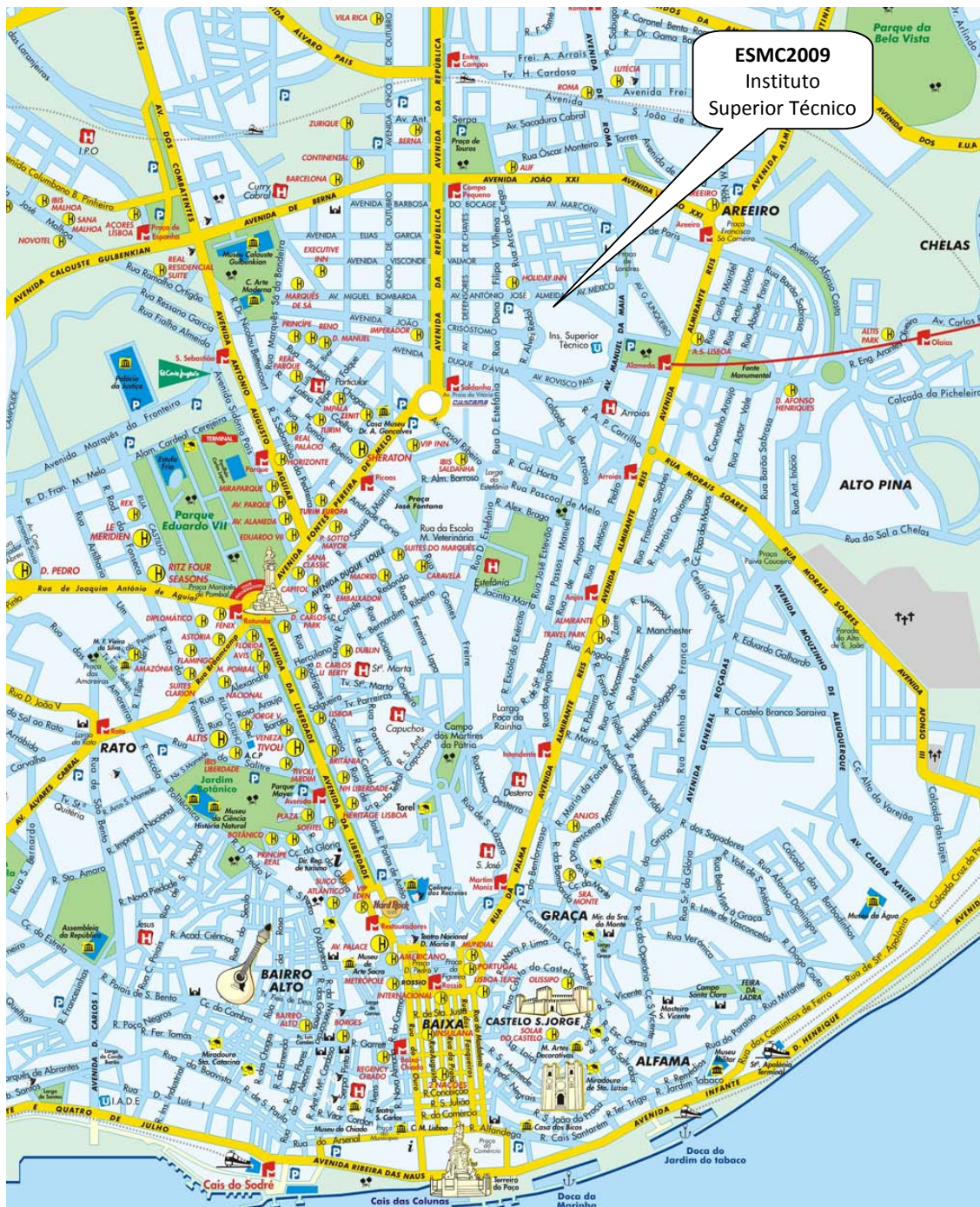
Tour 4 - Sesimbra, Setúbal, Palmela (Full day with lunch). Sep. 9th, 9:00 am

Tour 5 - Óbidos, Nazaré, Batalha, Fátima (Full day with lunch), Sep. 9th, 9:00 am

For more information see the registration page of the ESMC2009 web page or contact Abreu Travel, responsible for booking these tours.

General Tourist Information

Lisbon Map¹⁾



Getting Around in Lisbon

Getting to Lisbon by air

Direct flights from most of European cities, North or South America and Africa land at the Portela Airport, terminal 2. A taxi ride from the airport to IST is about 4-5 km that takes 10-15 min, depending on traffic, and should cost 5-6€. To downtown the taxi ride is 7 km and should cost about 8€.

Getting to Lisbon by car

Drivers coming from the north use highway A1 while those coming from East and South use highway A2 entering in Lisbon through the 25 Abril Bridge or use A12 and enter by the Northeast of Lisbon through the Vasco da Gama bridge. The speed limits in Portugal are 120 km/h on highways, 90 km/h on roads and 50 km/h in urban areas, unless marked otherwise. By car the driving distance to Porto is 3h, to Algarve 3h, to Seville 5h and to Madrid 8h.

Getting to Lisbon by train

The St. Apolónia station is the terminal for trains arriving from the North of Portugal. The southbound trains depart from the Barreiro train station, across the Tagus river (a ferry must be used). Although trains from Paris, Madrid or Vigo reach Lisbon, these are not recommended, unless you are ready for a very long ride.

Moving around

Lisbon is served by an extensive network of public transportation that can take you anywhere in the city and to its surroundings. Taxis (black and green or beige) are cheap when comparing to most of the European countries. They can be called by phone, picked-up on taxi plazas or stopped on the street.

The Lisbon Metro is a very comfortable and easy way to reach most of the city, from 6:30 to 1:00. Some of the stations are worth a visit for their architectural features or for the tiles and artwork that they exhibit. The Metro lines reach most of the city being the Metro stations close to IST:

Alameda (red and green line)

Saldanha (yellow line)

The bus routes cover all Lisbon and extend to its outskirts. The tickets can be pre-paid, at the counters of Carris, the surface transportation operator for Lisbon, or bought aboard the bus, electric cars or funiculars.

Lisbon Metro Lines



Bus routes passing close to IST and respective terminals:

- 7 Pç. Chile - Sr. Roubado (Metro)
- 16 Pç. Chile - Av. Róvisco Pais - Benfica
- 22 Marquês Pombal - Portela (R. Escritores)
- 40 Cais Sodré - Picheleira (Olaias)
- 718 ISEL - Amoreiras
- 720 Picheleira - Calvário
- 767 Estação Damaia - C. Martires Patria

For IST hop off on one of the following bus stops:

- Av. Manuel Maia
- Av. Róvisco Pais

Suburban trains to Estoril and Cascais depart from the Cais do Sodré train station, to the south of the river cities from Entrecampos while to Sintra the trains depart from Rossio or Entrecampos. The ride to Sintra or to Cascais should take about 45 min, each way. The train ride from Entrecampos to south of the river is a highlight as the train will cross the 25 de Abril Bridge with magnificent views of Lisbon.

For IST the nearby train stations are:

- Roma-Areeiro
- Entrecampos

Lisbon Bus Lines ((IST vicinity))



Emergency number

112 is the number to call for any medical emergency

Other general information

Time zone: GMT (London has the same time as Lisbon)

Electricity: 220V, 50 Hz with standard European power sockets

Currency: Euro (€)

Banks: working hours are 8:30 – 15:00 (Monday-Friday)

Pharmacies: 9:00 – 19:00

Shops: 9:00 – 19:00

Shopping Malls: 10:00 – 23:00

Temperature: Average high 27°C, Average low 17°C

Note: A given airline company is offering 20€ refund for each day of rain during September in Lisbon. Although we are trust the goodness of the weather we cannot match their offer, unfortunately. So, check out the weather forecast prior to your departure to Portugal.

Accommodation

Hotels at a convenient distance from IST (distance, walking time):

Hotel NH Campo Grande**** (1.5km, 20 min)

Hotel Villa Rica**** (1.5km, 20min)

Hotel VIP Berna*** (1.0km, 15 min)

Hotel VIP Zurique*** (1.0km, 15 min)

Hotel VIP Barcelona**** (1.0km, 15min)

Hotel Holiday InnContinental**** (1.0km, 15min)

Hotel Lutécia**** (1.0km, 15min)

Hotel Roma*** (1.0km, 15min)

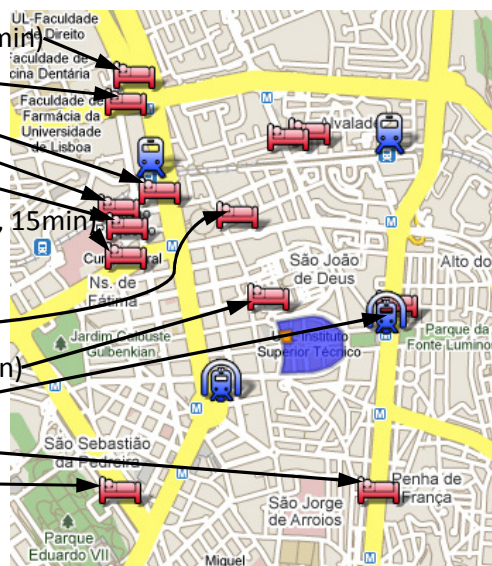
Hotel Alif*** (0.7km, 10min)

Hotel Holiday Inn Lisboa**** (0.1km, 2min)

Hotel A.S. Lisboa*** (0.3km, 5min)

Hotel Almirante*** (1.5km, 20min)

Hotel Miraparque*** (1.5km, 20min)



Note:

All Hotel reservations can be made using the services of the ESMC2009 official travel agency Abreu (Abreu - PCO - Lisbon Office; Edifício Abreu; Avenida 25 de Abril, 2; 2799-556 Linda-a-Velha; Portugal; Tel: +351 21 415 6120; Fax: +351 21 415 6383; Email: hcarvalho.lisboa@abreu.pt). The Hotel offer in Lisbon, and even around IST, is much larger than what is displayed in the companion map.

Our Favorites in Lisbon

Our Favorite Restaurants:

Pap'Açorda €€€€ (Rua da Atalaia 57, at Bairro Alto): Based on the flavors of the Alentejo region the dishes are modernized. An excellent restaurant.

Tasca da Esquina €€€ (Rua Domigos Sequeira 41, Campo de Ourique): Opened by one of the best known Portuguese Chef, Vitor Sobral, has Portuguese food based on dishes to sample or full meals supported by an extensive and well maintained wine list.

Bica do Sapato €€€ (Avenida Infante D Henrique, Alcantra): Housed in a revamped warehouse on the waterfront, this lounge bar-cum-restaurant-cum-sushi bar attracts the local smart set with a number of different dining areas. One of the owners is rumoured to be John Malkovich. Seafood is a strong point, and can be enjoyed on the outdoor terrace in summer. The only criticism remains that style can sometimes be at the expense of substance.

Doca 6 €€€ (Docas, Alcantara): is a most pleasant bar/restaurant right on the Tagus riverfront, perfect for lunchtime to late evening dining. Of the many specialities of this restaurant, the fresh fish and simply cooked shellfish provide some of the best flavours in Portuguese cuisine.

Cervejaria da Trindade €€ (Rua Nova da Trindade 20, Bairro Alto): The setting is grand in a tiled old monastery building, but there is nothing too flash about the menu being the seafood very good (crab, shrimp, lobster, ...). They also have their own microbrewery on site. In summer they open their outdoor terrace.

Bota Alta €€ (Travessa da Queimada, Bairro Alto): Visitors enjoy dining in this lively restaurant amid the unique decor of various artwork and photographs. The frequently changing menu offers selections of typical Portuguese dishes, as various codfish dishes. Arriving very early or very late may help avoid the large lunch and dinner crowds

Chapitô €€€ (Rua da Costa do Castelo, Castelo): International food made in a competent way and served by a limited list of wines, but nothing out of the ordinary. However the views and the setting are worth a visit.

Restaurant Galito €€ (Rua da Fonte, Carnide): Within this small 42 seat-room, Alentejano tradition reigns in the recipes and also in the decoration, made up of hand-painted rustic furniture and Portuguese cobble stone. The house's special seasoning is prepared by Maria Gertrudes Grave Fortes, aka Dona Gertrudes, who, at 77 years of age, is still happy to serve at the tables. Her son, Henrique, receives the customers, together with his own son. Save space for the deserts.

Our Favorite Places in Lisbon:

Belém:

The area of Belém hosts some of the most impressive monuments



associated to the Portuguese exploration of the World. The **Jeronimos Monastery** built in a fascinating combination of late-baroque and the Renaissance styles in the 16th century, the Monastery celebrates the country's Age of Discovery. Interiors present unique masterpieces of "Manueline" decoration along with the symbolic tombs of worldwide famous poet Luis de Camoes and the navigator Vasco de Gama. The Monastery was classified a "Cultural Heritage of All Humanity" by UNESCO in 1984. The **Discoveries Monument** (Padrão dos descobrimentos) built on the bank of River Tagus in 1960 to honor the 500th anniversary of the death of Prince Henry the Navigator. Designed in the shape of a caravel, on which Henry the Navigator, Vasco da Gama, Pedro Álvares Cabral - discoverer of Brazil - Fernão Magalhães - who crossed the Pacific in 1520 -, the writer Camões and many relevant heroes of Portuguese history are shown, the monument offers a fabulous view from the top. It also owns a multimedia itinerary through the history of Lisbon, as well as hosts temporary exhibitions and concerts. The **Belem Tower** (Torre de Belém) built in Manueline style during the Age of Discoveries, in 1520, the Tower served to defend the Tagus River bank. Once a symbol of King João II's power, as the new centuries passed, the tower had been given different functions such as a customs control point, a telegraph station, a lighthouse and even a political prison. UNESCO classified it as a World Heritage Site in 1983. (Suggestion: Take a break at the 'Antiga Confeitaria de Belém for the world renowned 'Pastéis de Belém', a creamy cake with its origins in the nearby Jeronimos Monastery)

Castle of St. Jorge:

Built by the Visigoths in the 5th century and enlarged by the Moors in



the 9th century, the Castle demonstrates the early history of the city, while offering to its visitors a spectacular panoramic view of Lisbon and Tagus River. The Castle also hosts a multimedia exhibition of Lisbon's history. The visitors shouldn't miss out the Ogival House, from where the 17th-century door that made the connection to the jails once located in the Castle can be seen. Suggestion: Reading the book 'History of the Siege of Lisbon', by José Saramago, describes the conquest of the Castle by the first Portuguese King in 1147 and, in the process, sketches the foundation of Portugal.

Cathedral:

Santa Maria Maior de Lisboa or Sé de Lisboa is the cathedral of Lisbon and the oldest church in the city. Since the beginning of the construction of the cathedral, in the year 1147, the building has been modified several times and survived many earthquakes. It is nowadays a mix of different architectural styles. This first building was completed between 1147 and the first decades of the 13th century in Late Romanesque style. At that time the relics of St Vincent (Vincent of Saragossa, patron saint of Lisbon) were brought to the cathedral from Southern Portugal. In the end of the 13th century King Dinis of Portugal built a Gothic cloister, and his successor Afonso IV of Portugal had the main chapel converted into a royal pantheon in Gothic style for him and his family.



Lisbon Downtown:

Walking down from Rossio is Baixa which displays a lively atmosphere for its visitors. Surrounding buildings, which were rebuilt after the Great Earthquake by the order of Marquês de Pombal, reflect the architectural taste of late 18th century. It is interesting to note in Baixa is that from the beginning, each street was given a specific function which was reflected in its name. Rua dos Sapateiros (Cobbler's Street), Rua da Prata (Silversmiths' Street), Rua do Ouro (Goldsmith's Street) and Rua do Comércio (Commercial Street) are the best examples for that. Closed to the cars, the central street Rua Augusta is the most significant shopping street in Baixa and hosts various cloth merchants, cafes, restaurants, shops, banks and street performers. When descending Rua Augusta, turning on the first street on the right will lead you to the Santa Justa Elevator. Opened to the public in 1902, The Elevador de Santa Justa is designed in neo-Gothic style by Raoul Mesnier du Ponsard, apprentice to Gustave Eiffel. Rising vertically 45 meters from the Rua de Santa Justa in Baixa, the Elevator provides views of the Baixa quarter and the River Tagus. In the end of Rua Augusta is Praça do Comércio - Lisbon's grandest square. The Praça was built in the end of Baixa, because Marquês de Pombal wanted a wide square that stood out in Europe. Coming by river, most visitors will feel like city's entrance. Here the bronze statue of Dom João I (18th century), Verissimo da Costa's Arch (19th century) opening onto Rua Agosta and a symbol of Portugal's imperial power Terreiro do Paço can be observed.



Parque das Nações:

This region of Lisbon, which hosted the world exhibition of 1998 (Expo 98), offers much to suit varied interests. Contrary to historical center, Parque das Nações attracts its visitors with its 21st century modern architecture. The best examples are Portugal Pavilion by Siza Vieira and Gare do Oriente (Oriente Railway Station). Several attractions are located throughout the park but if you don't like to walk through those attractions, there is a teleferico (Lisbon Cable Car) connecting from one side of the park to the other. The biggest attraction is Oceanarium, the biggest oceanarium of Europe designed magnificently by American architect Peter Chermayeff. It offers live displays, environmental sounds capes and interactive media for its visitors). The city's tallest building Torre Vasco de Gama is also located here, providing spectacular views over the city and the Tagus. On the other side of the dock is Pavilhão de Portugal (Portugal Pavilion). Designed by Siza Vieira, it hosts several exhibitions. Designed in a futuristic fashion, next door building is Pavilhão Atlantico (Atlantic Pavilion). Designed by Regino Cruz, it hosts a great variety of events from musical performances to ice spectacles. Beyond the Parque das Nacoes is the Ponte Vasco da Gama. Opened in March 1988, it was Europe's longest bridge before the link between Denmark and Sweden was built.



Our Favorite Museums:

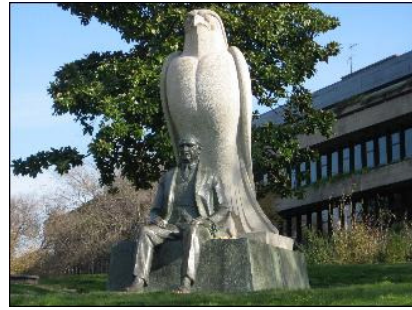
Museu Nacional de Arte Antiga:

Located near the Tejo river is the most important museum of this category in Europe, and the best place in which to understand the development of Portuguese art prior to the early nineteenth century. Founded in 1884 it occupies the palace of the counts of Alvor, dating from the 18th century. The chapel of the convent is a fine example of 18th century Portuguese Baroque art and architecture and is incorporated into the exhibits. This museum offers a very large collection of art work. One finds paintings, sculptures, decorative art dating from the 12th to 19th centuries by Portuguese artists, but also by foreign artists from the 14th - 19th century. In this museum you will find the famous picture "Painéis de S. Vicente" a very important piece of Portuguese painting from the 15th century. But there are also other very important works of art. Among the foreign school paintings there is "Tentações of S. Antão" by Jêrome Bosh. One can also see the famous 16th century Chinese folding screens, carpets, china, furniture, a collection of silverware including a French collection dating back to the 18th century.



Museu Calouste Gulbenkian

The collection is composed of several pieces that come from all over the world and were gathered by Mr Gulbenkian. Through these pieces you can really see the evolution in art, from Classic Antiquity to the 20th century. Gulbenkian was Armenian and lived in Portugal for a long time. Before his death he donated his fortune to Portugal, a fortune made from oil. In the museum you will find antique art, oriental art, art from the Far-East and European art. As for European art, among others, you will find Renoir, Degas, Rodin, Manet, Rubens, and Rembrandt. There is also a collection of contemporary art with pieces by René Lalique.



Coaches Museum

One of Lisbon's most visited sights, the Coaches Museum (Museu Nacional dos Coches) has the largest and most valuable collection of its type in the world. It is housed in a richly decorated 18th century royal riding school that is part of Belem Palace, illustrating the ostentation and staggering wealth of the Old Portuguese elite.



Each coach is more magnificent than the other, showing how coach-makers went to extraordinary lengths to make their vehicles stand out. One of the most outstanding has gilded figures on the tailgate showing Lisbon crowned by Fame and Abundance and a dragon trampling the Muslim crescent. Another, used in an embassy to France's Louis XIV, depicts cherubs with bat's wings. Yet another splendid example was built in 1716 for Portugal's ambassador to Pope Clement XI, decorated with scenes representing Portuguese military and maritime triumphs.

Tile Museum

Despite its somewhat out-of-the-way location, this delightful museum is well worth a visit, presenting five centuries of decorative ceramic tiles or azulejos, tracing the history and production of the art form. Its collection is the only of its kind in the world, and contains a splendid array of tiles from as early as the 15th century along with displays on how they're made. It is housed in the monastic buildings of the Madre de Deus Convent, which after renovation following the Great Earthquake had its interior turned into one of the most magnificent in the city. The splendor and opulence of the chapel dedicated to St. Anthony and the chapter house is particularly impressive. The highlight of the museum is a blue and white composition of 1300 tiles, 23m (75ft) in length, of Lisbon's cityscape made in 1738, and prior to the Great Earthquake.



Our Favorite Places in the vicinity of Lisbon:

Sintra:

A beautiful town at the foot of the mountain range of the same name, its unique characteristics has led UNESCO to classify it as a World heritage site. It was even necessary to create a special category for the purposes - that of "cultural landscape" - taking into account its natural riches as well as the historic buildings in the town and mountains. Endowed with luxuriant vegetation, the mountains are part of the Sintra-Cascais Natural Park. From early times Sintra has been the place of choice for the settlement of various peoples who have passed through the Iberian Peninsula and left traces of their presence, which are now displayed in the Archaeological Museum of Odrinhas, in the outskirts of the town. In the 12th century, Dom Afonso Henriques, the first King of Portugal, captured the Moorish Castle, and his successors later built their holiday residence. Their physiognomy is marked by the two enormous conical chimneys built in the middle Ages. Much appreciated by kings and nobles as a country resort, and praised by writers and poets like (inevitably) Lord Byron who called it "glorious Eden", Sintra has a wealth of cottages and manor houses, some of which now provide accommodation in the form of country-house tourism. The palaces, too, are outstanding, such as the Pena Palace, built in the Romantic period on one of the mountain peaks, and the 18th century Palace of Seteais, now converted into an elegant hotel, and the Palace of Monserrate, famous for its beautiful gardens with their exotic species that are unique in the country.



Cascais:

Owing to a Mediterranean type microclimate, the Estoril Coast has mild winters and an ideal summer temperature which never gets too hot. The autumn is ideal and is like a second spring. It starts in Carcavelos, 15 kilometers from Lisbon, and stretches as far as Guincho, striking a harmonious blend between the delights of the land and the enchanting beauty of the sea. Besides exploring the center of Cascais the coast that extends west of the city to the Guincho beach (5 km away) is worth being explored (take a free bike from Guia and use the bicycle path). Suggestion: Have a meal or simply a drink at 'Casa da Guia' by the end of the day after your bike ride.



Queluz:

The main body of the Palace, erected by 1758, with its low sinuous forms and harmonious intimist decoration is embellished by luxurious gardens, which were endowed with Baroque fountains, statues and places for recreation. Queluz, which has not infrequently been



compared with Versailles Palace, differs from Louis XIV's edifice (in fact of earlier date) in the sense of scale and proportions revealed in its lines, with a more balanced distribution of graphic values, within a neo-classicism as yet not bound to the rococo formulae. The force and exuberance of the pavilion conceived by Robillion, with its strong French and Austrian influence, strikes a more "evolved" note, for all the rest is thoroughly Portuguese, in its scale and artistic spirit.

Convent of Mafra:

Palace-Convent built in the 18th century, is the largest Portuguese religious monument. It consists of lavish royal apartments as well as 330 cells for its monks, a magnificent library



(which houses about 36.000 collectors' books that include a first edition of "Os Lusíadas" by the Portuguese poet Luís de Camões), carillon, basilica and museums. Suggestion: The book 'Memorial do Convento', or 'Baltazar and Blimunda' in the English translation, by the Portuguese Nobel Prize winner, José Saramago, describes the construction of the Convent ... and in the process the invention of the first hot air balloon by the Portuguese priest Bartolomeu de Gusmão, 74 years before the Montgolfier brothers.

Óbidos:

The delightful town of Óbidos, with white houses adorned with bougainvilleas and honeysuckle has its roots in pre-Roman times. Encircled by a ring of medieval walls and crowned by the Moorish castle rebuilt by D. Dinis, which is now a pousada, Óbidos is one of the most perfect

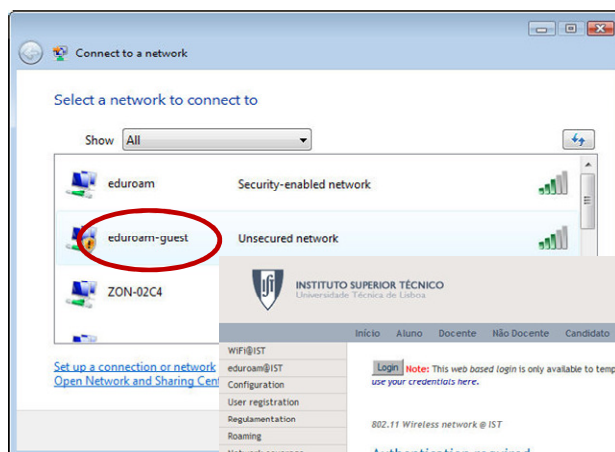


examples of our medieval fortress. It is in olden times, the town is entered through the southern gate of Santa Maria, embellished with eighteenth-century azulejo decoration. Inside the walls one can sense a cheerful medieval ambience of winding streets, old whitewashed houses bordered with blue or yellow, Manueline embrasures and windows. Suggestion: Take a break and have a 'Ginginha (Cherry Brandy) at Ibn Errik Rex.

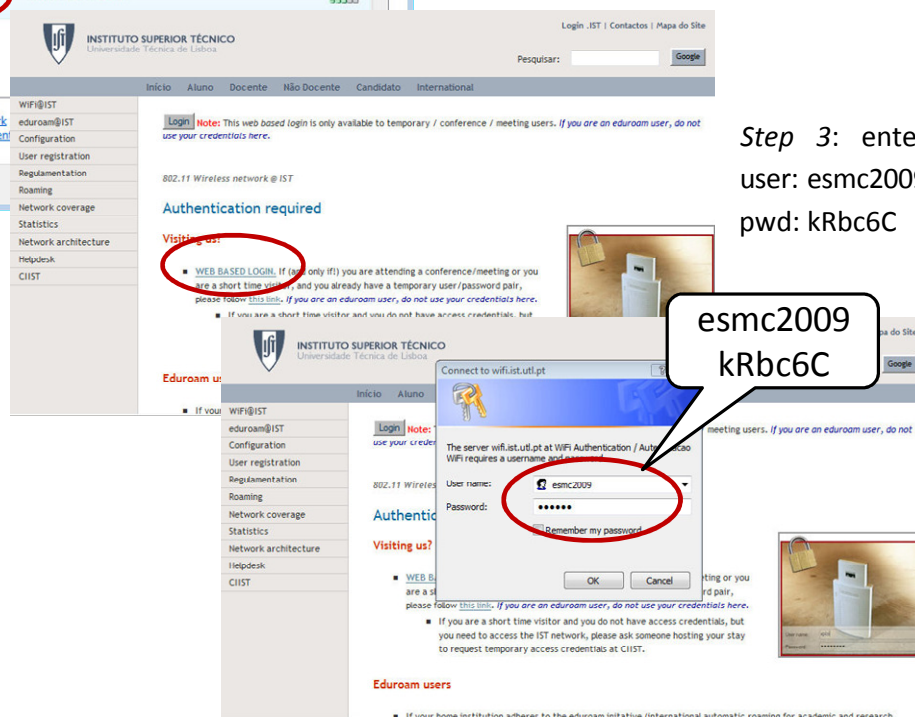
ESMC2009 Scientific Programme

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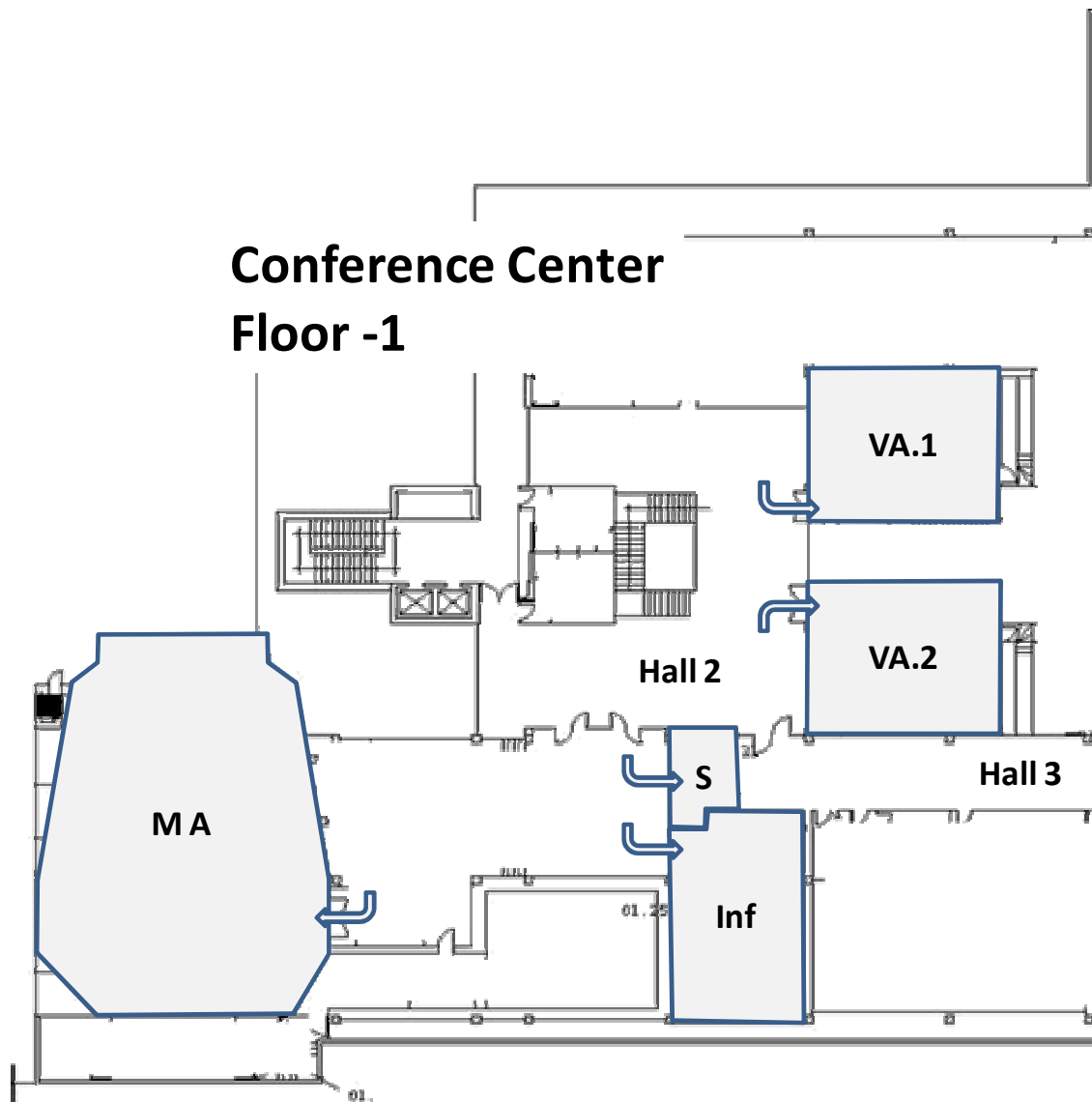
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Instructions for Presenters

- Each presentation will take 20 minutes including discussion (unless stated otherwise in the scientific programme).
- The files required for the presentation (PowerPoint, PDF, others) must be uploaded and tested on the conference computers prior to the respective presentation session. (UPLOAD YOUR FILES AND TEST THEM AS SOON AS POSSIBLE).
- No presentations from personal computers are permitted

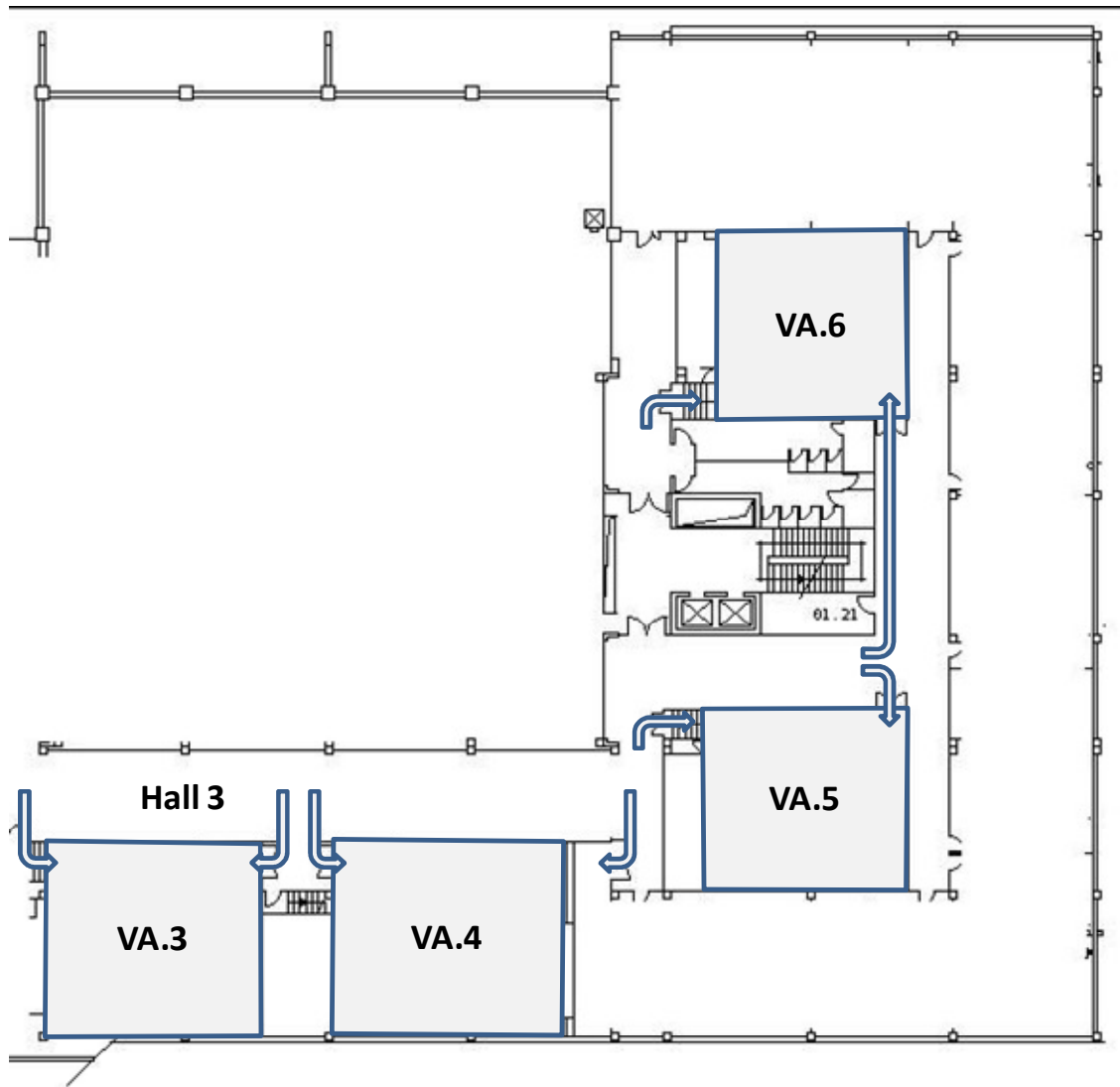
Conference Floor Plan

MA - Main Auditorium

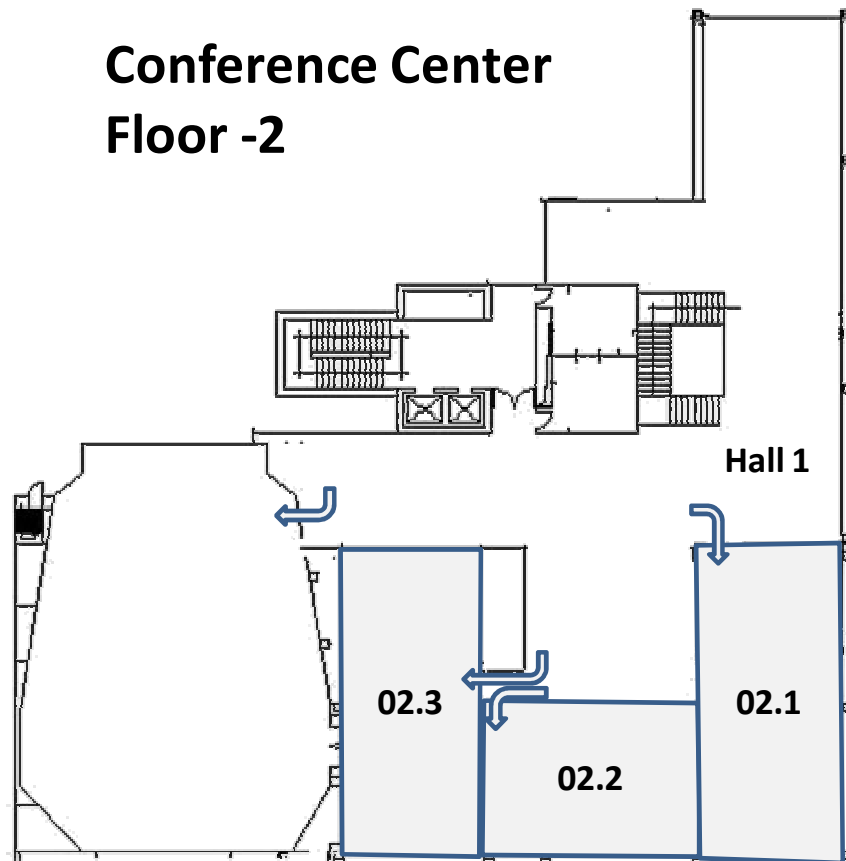
S - Secretariat

Inf - Computer Room (Presentations uploads; Presentation testing; Internet room)

Note: All ceremonies and lectures will take place in the Main Auditorium (MA) and video transmitted to Amphitheaters VA.1, VA.2, VA.3 and VA.4



Conference Center Floor -2



ESMC2009 Scientific Programme

Opening and Closing Ceremony – MA (Main Auditorium)^(*)

Monday, September 7

- 8:45-9:00 Opening Ceremony
 - Welcome by the Conference Chairman, Prof. Jorge Ambrósio
 - Welcome by the Scientific Committee Chairman, Prof. Ray Ogden
 - Opening by the Rector of TULisbon, Prof. Fernando Ramôa Ribeiro
- 9:00-9:10 Presentation to new EUROMECH Fellows by Prof. Werner Schiehlen
 - Davide Bigoni, Italy
 - Felix Chernousko, Russia
 - Erik van der Giesen, The Netherlands

Friday, September 11

- 12:00-12:30 Closing Ceremony
 - Best Paper and Poster Awards by Prof. Ray Ogden
 - Invitation to ESMC2012 in Graz, Austria
 - Farewell by Prof. Jorge Ambrósio

^(*) All ceremonies will be video transmitted to Amphitheaters
VA.1, VA.2, VA.3 and VA.4

Lectures– MA (Main Auditorium)^(*)

Monday, September 7

- 9:10-9:50 Lecture of the EUROMECH Solid Mechanics Prize winner
Viggo Tvergaard: 'Analyses of Crack Growth in Ductile Metals'
- 14:00-14:50 General Lecture
Franz Rammerstorfer (TU Vienna, Austria): 'On Instabilities Appearing During the Production of Plates and Shells'

Tuesday, September 8

- 9:00-9:50 Plenary Lecture
Pedro Camanho (U of Porto), Portugal): 'Advanced Lightweight Structures Based on Non-Conventional Composite'
- 14:00-14:50 Plenary Lecture
Peter Eberhard (U of Stuttgart, Germany): 'About Model Reduction of Elastic Bodies Used in Flexible Multibody Dynamics'

Wednesday, September 9

- 9:00-9:50 Plenary Lecture
Manuel Doblaré (U of Zaragoza, Spain): 'On Modelling Damage and Osseointegration Evolution in Bone Implant Surfaces'
- 14:00-14:50 Plenary Lecture
Antonio de Simone (SISSA, Italy): 'Nematic Elastomers as Soft Contractile Actuators: Theoretical Modeling and Numerical Simulations'

Thursday, September 10

- 9:00-9:50 Plenary Lecture
Jean-Baptiste Leblond (U Pierre et Marie Curie, France): 'In-Plane Coalescence of Slit-Cracks'

Friday, September 11

- 9:00-9:50 Plenary Lecture
Paul Steinmann (U of Erlangen, Germany): 'Modelling and Simulation of Polymer Curing'

^(*) All Lectures will be video transmitted to Amphitheaters
VA.1, VA.2, VA.3 and VA.4

Mini-Symposia

- MS-02 *Biomechanics of Human Locomotion* (by Miguel Silva, Portugal; Javier Alonso, Spain)
- MS-03 *Composite Materials* (by Pedro Camanho, Portugal)
- MS-04 *Computer Modeling of Industrial Forming Processes* (by Luís Filipe Menezes, Portugal; Amílcar Ramalho, Portugal)
- MS-05 *Contact Mechanics* (by Michel Raous, France; Manuel Marques, Portugal)
- MS-06 *Damage and Fracture* (by José César de Sá, Portugal; K. Saanouni, France)
- MS-07 *Force chain fluctuations and jamming in dense granular flows* (by Corey S. O'Hern, USA; Lou Kondic, USA)
- MS-08 *Image Processing and Visualization in Solid Mechanics Processes* (by João Tavares, Portugal; M. Audette, Germany)
- MS-09 *Macro-micro-nano approaches in material mechanics* (by Georges Cailletaud, France; Reinhard Pippan, Austria)
- MS-10 *Mechanics of Cellular and Network-like (Bio)Materials* (by Patrick R. Onck, The Netherlands; Michelle L. Oyen, UK)
- MS-12 *Modeling of Biological Materials* (by Gerhard Holzapfel, Austria; Markus Böhl, Germany; S. Bordas, UK)
- MS-13 *Modelling, Simulation and Testing of Composite and Adaptive Structures* (by Cristovão M. Soares, Portugal; Jan Blachut, UK)
- MS-14 *Multibody Dynamics* (by Paulo Flores, Portugal; Javier Cuadrado, Spain)
- MS-15 *Multiscale Modeling of Ductile and Brittle Damage in Solids: Recent Progresses and New Trends* (by Cristian Dascalu, France; D. Kondo, France)
- MS-16 *Nonlinear Effects in Magneto- and Electro-Active Materials* (by Luis Dorfmann, USA; Ray Ogden, UK)
- MS-17 *Nonlinear Localization and Targeted Energy Transfer in Dynamical Systems and Engineering* (by Oleg Gendelman, Israel; Alexander Vakais, USA; L. Bergman, USA)
- MS-18 *Nonlinear Vibrations and Acoustics* (by Pedro Ribeiro, Portugal; José Antunes, Portugal)
- MS-19 *Nonsmooth Dynamics* (by Remco Leine, Switzerland; Frederic Dubois, France)
- MS-20 *Optimization Methodologies and Finite Element Numerical Simulation Applied to Metal Forming Industrial Problems* (by R. A. Fontes Valente, Portugal; A. ACampos, J.-P. Ponthot, Belgium)
- MS-23 *Probabilistic Models for Measurements and Analyses in Mechanics of Materials* (by François Hild, France; K. Sobczyk, Poland)
- MS-24 *Kinetics, Control and Vibrorheology – KINCONVIB 2009* (by Katica Hedrih, Serbia)
- MS-25 *Waves in Solids, Nondestructive Evaluation and Structural Health Monitoring* (by Ajit Mal, USA; Fabrizio Ricci, Italy)
- MS-26 *Stability and Nonlinear Behavior of Steel Structures* (by Dinar Camotim, Portugal)
- MS-27 *Stability of Solids Under Finite Deformation* (by Michel Destrade, Ireland; G. Saccomandi, Italy)
- MS-28 *Progress In Thermomechanics of Materials* (by André Chrysochoos, France; Daniel Rittel, Israel)
- MS-29 *Vehicle Dynamics* (by Werner Schiehlen, Germany; Georg Rill, Germany)

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Wednesday Afternoon (September 9, 2009)															
13:20	13:40	14:00	14:20	14:40	15:00	15:20	15:40	16:00	16:20	16:40	17:00	17:20	17:40	18:00	TIME
Lunch Break	Plenary Lecture Antonio di Simone Nematic Elastomers as Soft Contractile Actuators: Theoretical Modeling and Numerical Simulations				Coffee Break										ROOM
															MA
															VA.1
															VA.2
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															O2.1
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O2.3															
					GS-CM.6 (Continuum Mechanics)					GS-CM.7 (Continuum Mechanics)					
					GS-CoM.6 (Computational Mechanics)					MS-13.2 (Modelling, Simulation and Testing of Composite and Adaptive Structures)					
					MS-06.4 (Damage and Fracture)					MS-06.5 (Damage and Fracture)					
					MS-28.1 (Progress In Thermomechanics of Materials)					MS-27.2 (Stability of Solids Under Finite Deformation)					
					MS-29.3 (Vehicle Dynamics)					MS-14.4 (Multibody Dynamics)					
					MS-09.1 (Macro-Micro-Nano Approaches in Material Mechanics)					MS-09.2 (Macro-Micro-Nano Approaches in Material Mechanics)					
					GS-SM.3 (Structural Mechanics)					GS-SM.4 (Structural Mechanics)					
					MS-08.2 (Image Proc. and Visualization in Solid Mech. Processes)					GS-MM.8 (Material Mechanics)					
					MS-07.4 (Force Chain Fluctuations and Jamming ... Granular Flows)					MS-07.5 (Force Chain Fluctuations and Jamming in Dense Granular Flows)					
					MS-24.1 (Kinetics, Control and Vibrorheology – KINCONVIB 2009)					MS-23.1 (Probabilistic Models for ... Mechanics of Materials)					

General Session:

Continuum Mechanics

Session	Date		From	To	Room	Chairman
GS-CM.1	Tuesday	Morning	10:00	11:20	MA	Henryk Petryk
GS-CM.2	Tuesday	Morning	11:40	13:00	MA	David Hills
GS-CM.3	Tuesday	Afternoon	15:00	16:20	MA	Siegfried Maiolino
GS-CM.4	Tuesday	Afternoon	16:40	18:00	MA	Massimo Cuomo
GS-CM.5	Wednesday	Morning	10:00	11:20	MA	Tamás Fülöp
GS-CM.6	Wednesday	Afternoon	15:00	16:20	MA	Ichiro Ario
GS-CM.7	Wednesday	Afternoon	16:40	18:00	MA	Salvatore Federico
GS-CM.8	Thursday	Morning	10:00	11:20	MA	Włodzimierz Domanski
GS-CM.9	Thursday	Morning	11:40	13:00	MA	Markus Lazar
GS-CM.10	Friday	Morning	10:00	11:20	MA	Sami Holopainen

Session GS-CM.1 Tuesday Morning Chair: Henryk Petryk Room: MA

Time	ID	Authors	Title
10:00	15	S. Vigdergauz	Energy-Minimizing Openings Around a Circular Hole in an Elastic Plate
10:20	17	K.P. Soldatos	On Plane-Strain Deformation of Fibre-reinforced Materials According to a Second Gradient Hyper-elasticity Theory
10:40	29	A.-L. Chen, Y.-S. Wang, J.-B. Li, C. Zhang	Localization Phenomenon of Two-Dimensional Randomly Disordered Phononic Crystals
11:00	590	S. Federico, T.C. Gasser	Non-Linear Elasticity of Composites with Statistically Oriented Fibres

Session GS-CM.2 Tuesday Morning Chair: David Hills Room: MA

Time	ID	Authors	Title
11:40	31	D. Natroshvili, O. Chkadua, T. Buchukuri	Stress Singularity Analysis in Interface Crack Problems for Composite Structures
12:00	83	A.V. Porubov, E.L. Aero, G.A. Maugin	Nonlinear Description of Internal Structural Deviations in Solids
12:20	93	A. Rusinko	Plastic-Creep Deformation Interrelation

Session GS-CM.3 Tuesday Afternoon Chair: Siegfried Maiolino Room: MA

Time	ID	Authors	Title
15:00	116	A.P. Kiselev, G.A. Rogerson	Elastic Surface Waves with General Lateral Dependencies in Layered Structures
15:20	157	M. Rousseau, G.A. Maugin, M. Berezovski	Elements of Wave Propagation in Dynamic Materials
15:40	193	A.I. Khromov, A.A. Bukhanko, O.V. Patlina	The Problem of Blunting of an Angular Notch (Crack Tip)

Session GS-CM.4 Tuesday Afternoon Chair: Massimo Cuomo Room: MA

Time	ID	Authors	Title
16:40	302	S. Reina, D. Dini, D.A. Hills	Measuring Friction in Partial Slip Fretting Tests: Theoretical and Experimental Investigations of "Walking" Contact Pairs
17:00	355	C.F.O. Dahlberg, J. Faleskog	Interface and Plastic Strain-Gradient Effects on the Global Response of a Layered Solid Deformed in Simple Shear
17:20	385	S. Holopainen	Symmetrization of Tensors on General Spaces and Their Applications in Continuum Mechanics
17:40	338	M. Svanadze	Dynamical Theory of Elasticity for Double Porosity Solids

Session GS-CM.5 Wednesday Morning Chair: Tamás Fülöp Room: MA

Time	ID	Authors	Title
10:00	396	M.A. Grekov	A Boundary Perturbation Technique in some Problems of Elasticity
10:20	406	C. Mbodj, M. Renouf, L. Baillet, G. Peilleux, Y. Berthier, P. Jacquemard	Influence of Contact Contrast Properties on the Evolution of Carbon/Carbon Composites under Dynamical Conditions of Rubbing Contact
10:40	416	S.A. Kostyrko, M.A. Grekov	Stress and Stability Analysis of a Thin Film Surface Subjected to High Temperature
11:00	418	V.F. Chekurin, D. Sankowski	Mathematical Problems for Stress Tensor Fields Optical Tomography. Variational FEM Approach

Session GS-CM.6 Wednesday Afternoon Chair: Ichiro Ario Room: MA

Time	ID	Authors	Title
15:00	471	E.I. Shifrin	Reciprocity Gap Functional and Invariant Integrals in Linear Isotropic Elastostatics, Their Properties and Applications to Inverse Problems
15:20	479	E.F. Grekova, M.A. Kulesh, G.C. Herman	Bulk and Rayleigh-type Waves in Soils and Rocks Modelled as Linear Elastic Isotropic Reduced Cosserat Continuum
15:40	508	L. Paletti, G. Campoli, C. Rans, R. Benedictus	On Adapting the Hertz Contact Model for Application to Contact in Mechanically Fastened Joints
16:00	529	H. Petryk, S. Stupkiewicz	On Interfacial Energy and Dissipation in Martensitic Transformations

Session GS-CM.7 Wednesday Afternoon Chair: Salvatore Federico Room: MA

Time	ID	Authors	Title
16:40	552	S. Maïolino, M. P. Luong	Measuring Discrepancies Between Coulomb and Other Geotechnical Criteria: Drucker-Prager and Matsuoka-Nakai
17:00	573	M. Cuomo, M. Fagone	About the Evolution of the Symmetry Group of Anisotropic Elastoplastic Materials in Finite Deformations
17:20	595	M. Lazar	On the Field Theory of Dislocations
17:40	601	W. Domański	Propagation and Interaction of Weakly Non-linear Elastic Plane Waves along Acoustic Axes

Session GS-CM.8 Thursday Morning Chair: Włodzimierz Domanski Room: MA

Time	ID	Authors	Title
10:00	626	I. Ario, A. Watson, M. Nakazawa	Multi-Folding Behaviour of a Tree Structure
10:20	658	L.G. Aigner, J. Gerstmayr, A.S. Sinwel, H. Irschik	The Constitutive Modeling of Homogenized Contact and Friction Conditions in Thin-Sheet Packages
10:40	668	I.G. Goryacheva, A.N. Lyubicheva	A Periodic Contact Problem for a Viscoelastic Base
11:00	669	D.M. Kochmann, K. Hackl, K.C. Le	A Continuum-Dislocation Theory for Modeling Dislocation Microstructures

Session GS-CM.9 Thursday Morning Chair: Markus Lazar Room: MA

Time	ID	Authors	Title
11:40	699	E.V. Torskaya	Friction Contact of Coated Bodies with a Rough Indenter
12:00	705	S. Ricker, J. Mergheim, P. Steinmann	FE2 Based Multi-Scale Computation of Defect Driving Forces
12:20	707	E.K. Agiasofitou, M. Lazar	On the Nonlinear Continuum Theory of Dislocations
12:40	743	S. Dumont, J. Fortin	Polarization of the Contact Forces in an Interface

Session GS-CM.10		Friday	Morning	Chair: Sami Holopainen	Room: MA
Time	ID	Authors		Title	
10:00	818	T. Fülöp, P. Ván		Finite Strain Tensors: Which One To Use?	
10:20	825	A. Salupere, L. Ilison		On Interaction of Solitary Waves in Granular Materials	
10:40	863	S.-Y. Leu		Limit Analysis of Orthotropic Pressure Vessels with Strain Hardening	
11:00	8	D.V. Georgievskii		General Asymptotic Expansions by Low Geometric Parameter in Problems of Thin Solid Mechanics	

General Session:

Coupled Problems

Session	Date		From	To	Room	Chairman
GS-CP.1	Tuesday	Afternoon	15:00	16:20	O2.3	Tsolo Ivanov
GS-CP.2	Tuesday	Afternoon	16:40	18:20	O2.3	Igor Guz
GS-CP.3	Thursday	Morning	10:00	13:00	O2.2	Pras Pathmanathan
GS-CP.4	Friday	Morning	10:00	11:40	O2.1	Olivian Simionescu-Panait

Session GS-CP.1 Tuesday Afternoon Chair: Tsolo Ivanov **Room: O2.3**

Time	ID	Authors	Title
15:00	70	L. Monier, F. Razafimahery, N. Bideau	A Fluid-Structure Model for a Monofin
15:20	196	T. Heuzé, J.B. Leblond, J.M. Bergheau, É. Feulvarch	Modeling Fluid/Solid Couplings in High Temperature Assembly Processes
15:40	619	V. Flores, H.A. Sánchez, M.J. Pérez, C. Cortés	Mechanical Behavior of the Storage Tanks
16:00	867	R. Serpieri, L. Rosati	A Finite Deformation Model for the Dynamic Behaviour of Fluid Saturated Porous Biphasic Media

Session GS-CP.2 Tuesday Afternoon Chair: Igor Guz **Room: O2.3**

Time	ID	Authors	Title
16:40	24	I.V. Andrianov, V.V. Danishevs'kyy, D. Weichert	Homotopy Perturbation Method and Padé Approximants
17:00	44	T.P. Ivanov, R. Savova	Thermoviscoelastic Surface Waves
17:20	60	V. Subramaniyan, A. Andrade-Campos	Development and Implementation of a Thermo-Mechanical Constitutive Model for Heat Treatments
17:40	142	I. Münch, J.E. Huber	3D Ferroelectric Domain Structures on the Nanoscale
18:00	246	O. Simionescu-Panait	Guided Wave Propagation in Strained/Polarized Crystals

Session GS-CP.3 Thursday Morning Chair: Pras Pathmanathan **Room: O2.2**

Time	ID	Authors	Title
11:40	251	S. Enz, J.J. Thomsen	Phase Shift Effects for Vibrating Pipes Conveying Pulsating Fluid
12:00	342	L. Studer, S. Detrembleur, B.J. Dewals, M. Piroton, A.M. Habraken	Modeling the Vertical Spincasting of Large Bimetallic Rolling Mill Rolls
12:20	390	V.V. Vedeneev, S.V. Guvernuyuk, M.E. Kolotnikov	Experimental Observation of Single Mode Panel Flutter in Supersonic Gas Flow
12:40	429	H. Damanik, A. Ouazzi, J. Hron, S. Turek	A Monolithic Fem Approach for Temperature and Shear Dependent Viscosity in Viscoelastic Flow

Session GS-CP.4 Friday Morning Chair: Olivian Simionescu-Panait **Room: O2.1**

Time	ID	Authors	Title
10:00	103	I.A. Guz, Y.A. Zhuk, C.M. Sands	Modification of Monoharmonic Approach for Vibration Control of Inelastic Beams with Piezoactive Layers under Cyclic Loading
10:20	378	A. Ask, A. Menzel, M. Ristinmaa	Modeling of Rate-Dependent Electrostrictive Polyurethane Elastomers
10:40	507	P. Pathmanathan, D.J. Gavaghan, J.P. Whiteley	An Implicit Numerical Method for Cardiac Electro-Mechanics Simulations
11:00	655	X. Cao, A. Büter, D.G. Weis, U. Kosidlo	Reliability of Actuators Made With Carbon Nanotube Polymers
11:20	820	A. Nasedkin	New Model for Piezoelectric Porous Medium with Application to Analysis of Ultrasonic Piezoelectric Transducers

General Session:

Computational Mechanics

Session	Date		From	To	Room	Chairman
GS-CoM.1	Monday	Afternoon	16:40	18:00	VA.6	Carlos Daros
GS-CoM.2	Tuesday	Morning	10:00	11:20	VA.5	Leon Keer
GS-CoM.3	Tuesday	Morning	11:40	13:00	VA.5	João Batista Paiva
GS-CoM.4	Tuesday	Afternoon	15:00	16:20	VA.6	Vedrana Kozulic
GS-CoM.5	Wednesday	Morning	10:00	11:20	VA.5	Katrine Rogers
GS-CoM.6	Wednesday	Afternoon	15:00	16:20	VA.1	Michał Ciałkowski
GS-CoM.7	Thursday	Morning	10:00	11:20	VA.6	Alejandro Quesada
GS-CoM.8	Thursday	Morning	11:40	13:00	VA.6	Jan Adam Kolodziej
GS-CoM.9	Friday	Morning	10:00	11:40	VA.5	Krzysztof Grysa

Session GS-CoM.1 Monday Afternoon Chair: Carlos Daros Room: VA.6

Time	ID	Authors	Title
16:40	41	L. Marin	Stable MFS Solution of Singular Cauchy Problems Associated with Two-Dimensional Helmholtz-type Equations
17:00	49	S. Bauer, L. Lukassen, M. Schäfer	Numerical Aspects of Finite Rotation Parameterization for Non-Linear Micropolar Finite Element Analysis
17:20	55	D.B. Ribeiro, J.B. Paiva	A New Infinite Boundary Element Formulation Combined to an Alternative Multi-Region Technique
17:40	102	P. Angeli, F.D. Bona, M.G. Munteanu	Non-Incremental Beam Finite Element for Fast Non-Linear Analysis of 2D and 3D Systems

Session GS-CoM.2 Tuesday Morning Chair: Leon Keer Room: VA.5

Time	ID	Authors	Title
10:00	108	C.H. Daros	A Time-Harmonic Fundamental Solution for a Class of Inhomogeneous Transversely Isotropic Media
10:20	139	N. Zivaljic, A. Mihanovic, B. Trogrlic	A Two-Phase Loading Model for Nonlinear Analysis of Cable Structures
10:40	155	S. Victor, B. Guy, T. Speianu	The Θ -g-Convolution Method for Green's Integral Formulas Derivation
11:00	182	J. Li, Y.-S. Wang, C. Zhang	Finite Element Simulation on Localized Defect Modes in Two-Dimensional Fluid/Solid Phononic Crystals

Session GS-CoM.3 Tuesday Morning Chair: João Batista Paiva Room: VA.5

Time	ID	Authors	Title
11:40	194	A. Maciag	Solving Inverse Thermoelasticity Problems by Means of Trefftz Functions
12:00	198	K. Grysa, A. Maciag, B. Maciejewska	Wave Polynomials as Base Functions of FEM in Problems of Elastokinetics
12:20	213	S. Meireles, A. Completo, P. Flores, C. Relvas, A. Ramos, J.A. Simões,	Development of a Computational and Experimental Model for Intact and Implanted Patellofemoral Articulation
12:40	228	I.I. Mykhailova, O.V. Menshykov, I.A. Guz	Elastodynamic Contact Problems for Plane Cracks

Session GS-CoM.4 Tuesday Afternoon Chair: Vedrana Kozulic Room: VA.6

Time	ID	Authors	Title
15:00	247	D. Materna, F.-J. Barthold	Configurational Variations for the Primal and the Dual Problem in Elasticity with Applications to Goal-Oriented r-Adaptive Mesh Optimization
15:20	380	M. Ciałkowski, J.A. Kolodziej	Solution of Inverse Design Problem of Cooling of Elliptical Annulus by the Method of Fundamental Solutions and Minimization of Intensity of Entropy
15:40	389	A. Quesada, A. Gauchía, C. Álvarez-Caldas, J.L.S. Román	Influence of the parameters of the material model in finite element simulation of sheet metal stamping
16:00	399	L.M.J.S. Dinis, R.M. Natal Jorge, J. Belinha	The Non-Linear Analysis of 3D Beams Using a Radial Interpolation Meshless Method

Session GS-CoM.5 Wednesday Morning Chair: Katrine Rogers Room: VA.5

Time	ID	Authors	Title
10:00	410	H.-G. Kwak, J.-W. Hwang	Bond-slip Behavior of Composite Beams under Monotonic Loads
10:20	435	D. Nizetic, D. Kuzmanic, B. Trogrlic	Numerical Testing of Timber Beam with CFRP Sheet by Comparative Body Model
10:40	450	J. Lewinski, K. Magnucki	Strength Optimization of Middle Surface of a Dished Head of Circular Cylindrical Pressure Vessel
11:00	451	J. A. Kolodziej, M. Mierzwiczak	Transient Heat Conduction by Different Versions of Method of Fundamental Solutions – a Comparison Study
11:20	461	P. Gorzelanczyk, J.A. Kolodziej	Application of Method of Fundamental Solutions for Elasto-plastic Torsion of Prismatic Rods

Session GS-CoM.6 Wednesday Afternoon Chair: Michal Cialkowski Room: VA.1

Time	ID	Authors	Title
15:00	493	A. Sohrabpour, S.A.R. Hosseiny, A. Hashemian, H.M. Shodja	Analysis of an Anticrack problem via Reproducing Kernel Particle Method
15:20	568	H. Gotovac, V. Kozulić, B. Gotovac	Modeling of Boundary-Initial Value Problems using an Adaptive Meshless Method
15:40	576	A. Uscilowska	Bending of Plates with Variable Thickness – Solution by Method of Fundamental Solutions
16:00	593	T. Sikiwat, M. Breidt, D. Hartmann	Collapse Simulations of Large Scale Complex Structures due to Controlled Explosive

Session GS-CoM.7 Thursday Morning Chair: Alejandro Quesada Room: VA.6

Time	ID	Authors	Title
10:00	599	L.M. Keer, K. Zhou	Stress Field of a Cluster of Inhomogeneities Embedded in an Infinite Matrix
10:20	617	A. Castro, A. Completo, J.A. Simões, P. Flores	Biomechanical Study of the Bone-Implant Interface in Patellofemoral Arthroplasty
10:40	640	G. Garcea, A. Madeo, G. Zagari	Geometrically Exact Beam and Plate Models: the Implicit Corotational Method
11:00	722	K.S. Rogers, N.S. Ferguson, A.A. Perryman, B.R. Mace	Modelling Axially Moving Beams of Varying Length Using the Finite Element Method

Session GS-CoM.8 Thursday Morning Chair: Jan Adam Kolodziej Room: VA.6

Time	ID	Authors	Title
11:40	750	M. Ejday, L. Fourment	Metamodel Assisted Multi-Objective Optimization for Non-Steady 3D Metal Forming Applications
12:00	764	G. Garcea, L. Leonardo	Numerical Methods for the Evaluation of the Shakedown and Limit Loads
12:20	775	B. Szyszka	An Interval Method for Solving the One-Dimensional Wave Equation
12:40	782	J. Cugnoni, M. Galli, J. Botsis	Representative Volume Element Size of Particulate Composites for Different Nonlinear Behaviors

Session GS-CoM.9 Friday Morning Chair: Krzysztof Grysa Room: VA.5

Time	ID	Authors	Title
10:00	790	V. Kulbach, J. Idnurm	Interaction Between Cable Structures and Their Supporting System
10:20	791	N. Domínguez, L. Davenne, A. Ibrahimbegovic	Development of an Enhanced Solid Element for Modeling of Reinforced Concrete Structures
10:40	796	M.A.F. Torres, N.D. Ramírez	Development of Some Special Techniques for Simplifying XFEM Implementation in a Standard Finite Element Code (FEAP)
11:00	902	M. O. Vasiliev, Y. A. Kholodov, O. V. Geller	Simulation of Propagation of Fine and Ultra Fine Particle Aerosols in Airway Systems
11:20	975	K.L. Nielsen	Damage and Void Shape Evolution during Destructive Testing of Resistance SpotWelded Joints

General Session:

Dynamics

Session	Date		From	To	Room	Chairman
GS-DY.1	Monday	Morning	10:20	11:20	VA.4	Paulo Flores
GS-DY.2	Monday	Morning	11:40	13:00	VA.4	Zuzana Dimitrovova
GS-DY.3	Monday	Afternoon	15:00	16:20	VA.4	Pavel Polach
GS-DY.4	Monday	Afternoon	16:40	18:00	VA.4	Zuzana Dimitrovova
GS-DY.5	Thursday	Morning	10:00	11:20	O2.1	Emmanuel de Langre
GS-DY.6	Thursday	Morning	11:40	13:00	O2.1	Hans Irschik

Session GS-DY.1 Monday Morning Chair: Paulo Flores Room: VA.4

Time	ID	Authors	Title
10:20	166	R.M. Bulatovic, M. Kazic	On Conservation Laws of Gyroscopic Two Degree of Freedom Systems Linear in the Velocities
10:40	168	R. Bastais, G. Rodrigues, B. Mokrani, A. Preumont	Control-Structure Interaction in Active Optics of Large Segmented Mirrors
11:00	959	Z. Dimitrovová	Transversal Vibrations in Infinite Beams Supported by Piece-Wise Homogeneous Visco-Elastic Foundation

Session GS-DY.2 Monday Morning Chair: Zuzana Dimitrovova Room: VA.4

Time	ID	Authors	Title
11:40	233	E. Ghafoori, M. Sadeghpour	Investigation on Nonlinear Vibration of Dynamical Systems with Multi Degrees of Freedom
12:00	346	A. Stępniewski	D'Alembert's Supplemented Principle and Newton's Five Supplemented Laws
12:20	427	J. Šašek, M. Hajžman	Modal Synthesis Method and The Reduced Modelling of Flexible Rotors
12:40	704	M. Hajžman, J. Šašek	High-frequency Vibrations of Complex Flexible Rotating Systems

Session GS-DY.3 Monday Afternoon Chair: Pavel Polach Room: VA.4

Time	ID	Authors	Title
15:00	438	K.M. Popp, M. Kröger, M. Deichmueller, B. Denkena	On Contact Modeling of Workpiece and Grinding Wheel with Nonlinear Elements
15:20	453	T. Bartel, S. Herold, D. Mayer	Modeling of a Multipoint Mounted Body with 6 Degrees of Freedom
15:40	585	H. Bournine, D.J. Waggy, S. Neild	Vibration Damping In Bolted Friction Columns
16:00	589	J. Potter, J. Potter, D.J. Wagg	Optimisation Of Semi-Active Switching Controllers

Session GS-DY.4 Monday Afternoon Chair: Zuzana Dimitrovova Room: VA.4

Time	ID	Authors	Title
16:40	288	P. Thota, B. Krauskopf, M. Lowenberg	Bifurcation Analysis of Shimmy Oscillations in an Aircraft Nose Landing Gear with a Dual-wheel Configuration
17:00	38	F. Weidemann, P. Wieland	Control Technology in Simulation of Complex FE Models
17:20	686	P. Grönefeld, S. Tatzko, M. Wangenheim	Sprag-Slip Simulation with a ModularWiper Model
17:40	375	M. Rodriguez, B. Moullia, E. de Langre	Experimental Investigations of a Walnut Tree Multimodal Dynamics

Session GS-DY.5 Thursday Morning Chair: Emmanuel de Langre Room: O2.1

Time	ID	Authors	Title
10:00	662	H. Irschik, M. Krommer, C. Zehetnery	Dynamic Displacement Tracking of Linear Elastic Solids and Structures
10:20	780	K.Y. Osipenko	The Motion of the Rigid Body of Revolution in an Elastoplastic Medium with Small Perturbations
10:40	809	P. Polach	Calculation of Natural Vibration of a Steam Turbine Bladed Disk Using Rotational Periodicity and Comparison with Experimental Measurement
11:00	523	R. Attarnejad, A. Shahba, A. Ghalipour	Longitudinal Free Vibration Analysis of Tapered Euler-Bernoulli Beams Using Axial Basic Displacement Functions

Session GS-DY.6 Thursday Morning Chair: Hans Irschik Room: O2.1

Time	ID	Authors	Title
11:40	855	F. Fujii, T. Satoh, S. Fukumoto	Dynamic Contact Mechanics of the Domino Wave Propagation
12:00	896	A. Steinwolf, N.C.J. Ng	Random Vibration Testing with PSD Simulation Supplemented by Kurtosis and Skewness Control
12:20	911	H. Hetzler	On Self-Excited Vibrations due to Sliding Friction in Systems of Elastic Bodies – General Formulation and Influence of Contact Properties

General Session:

Experimental Mechanics

Session	Date		From	To	Room	Chairman
GS-EM.1	Monday	Morning	10:20	11:20	VA.6	Marta de Giorgi
GS-EM.2	Monday	Morning	11:40	13:00	VA.6	Tadeusz Szymczak
GS-EM.3	Thursday	Morning	11:40	12:40	VA.4	Josip Brnic
GS-EM.4	Friday	Morning	10:00	11:20	VA.4	Gast Rauchs

Session GS-EM.1 Monday Morning Chair: Marta de Giorgi **Room: VA.6**

Time	ID	Authors	Title
10:20	144	Z.L. Kowalewski, T. Szymczak	Mechanical Parameters Variation of 2024 Aluminium Alloy Subjected to Monotonic Loading Assisted by Cyclic Deformation
10:40	183	G. Rauchs, J. Bardon, D. Dumitriu	Identification of Elasto-Viscoplastic Material Properties From Nanoindentation Testing Using Gradient-based Optimization and Finite Element Modelling
11:00	313	J. Neggers, J.P.M. Hoefnagels, P.H.M. Timmermans, E.J.L. Zandeny, M.G.D.	Copper-Rubber Interface Delamination in Stretchable Electronics

Session GS-EM.2 Monday Morning Chair: Tadeusz Szymczak **Room: VA.6**

Time	ID	Authors	Title
11:40	319	J. Brnic, M. Canadija, G. Turkalj, D. Lanc	Uniaxial Tests of 50CrMo4 Steel at Lowered and Elevated Temperatures and Impact Notch Energy Determination
12:00	330	V. Miranda, F. Teixeira-Dias, I. Duarte	Multiaxial Experimental Characterisation of Aluminium Foams
12:20	715	V. Dattoma, M. De Giorgi, S. Giancane, R. Nobile	Investigation of Aluminum Foam Shear Behavior by DIC Analysis

Session GS-EM.3 Thursday Morning Chair: Josip Brnic **Room: VA.4**

Time	ID	Authors	Title
11:40	499	J. Barnat, M. Bajer, J. Kala	Bond Quality Analysis of Actual Chemical Anchors
12:00	755	V. Richter-Trummer, S. Tavares, D. Peixoto, S. Silva, O. Frazão et al.	Calibration of Fibre Bragg Grating (FBG) Sensors and Their Use for Welding Monitoring
12:20	840	M.A.S. Quintanilla, A. Castellanos	Onset of Avalanches of Fine Powders in a Rotating Drum: Experiments and Modeling

Session GS-EM.4 Friday Morning Chair: Gast Rauchs **Room: VA.4**

Time	ID	Authors	Title
10:00	904	L. Waltz, D. Retraint, A. Roos, P. Olier	Experimental Investigation on a Nanocrystallized Multilayered Structure Obtained with a Duplex Treatment: SMAT and Co-rolling
10:20	969	M. Poncelet, G. Barbier, B. Raka, S. Courtin, R. Desmorat, J.C. Le Roux, L.	Experimental Validation of the Number of Cycles to Failure Predicted by a Two Scale Damage Model for a 304L Steel Under Biaxial HCF
10:40	970	T. Kasimayan, K. Ramesh	Whole Field Photoelastic Parameters Estimation Using Five-step Method
11:00	792	M. Benachour, M. Benguadiab, A. Hadjoui, N. Benachour, F. Hadjoui	Effect of Machining Mode of the V-Notch on Fatigue Crack Growth in Aluminum Alloy

General Session:

Material Mechanics

Session	Date		From	To	Room	Chairman
GS-MM.1	Monday	Morning	10:20	11:20	VA.3	Ahmed Benallal
GS-MM.2	Monday	Morning	11:40	13:00	VA.3	Ahmed Benallal
GS-MM.3	Monday	Afternoon	15:00	16:20	VA.3	Marius Cocou
GS-MM.4	Monday	Afternoon	16:40	18:00	VA.3	Peter Hess
GS-MM.5	Tuesday	Morning	10:00	11:20	VA.3	Alberto Corigliano
GS-MM.6	Tuesday	Morning	11:40	13:00	VA.3	René R. Billardon
GS-MM.7	Wednesday	Morning	10:00	11:20	VA.6	C. Britta Hirschberger
GS-MM.8	Wednesday	Afternoon	16:40	18:00	O2.1	John Sweeney
GS-MM.9	Thursday	Morning	10:00	11:20	VA.4	Howard Schreyer
GS-MM.10	Friday	Morning	10:00	11:20	VA.3	Nicolas Van Goethem

Session GS-MM.1 Monday Morning Chair: Ahmed Benallal Room: VA.3

Time	ID	Authors	Title
10:20	34	X.-Z. Zhou, A.-L. Chen, Y.-S. Wang, C. Zhang	Wave Localization in One-Dimensional Disordered Phononic Crystals with Local Resonant Structures
10:40	57	M. Nakajima, Y. Uematsu, M. Akita, K. Tokaji	Fatigue Properties of Type 304N2 High-Nitrogen Austenitic Stainless Steel
11:00	58	M. Akita, M. Nakajima, Y. Uematsu, K. Tokaji	Fatigue Behaviour of Type 444 Ferritic Stainless Steel Annealed and Quenched at High Temperatures

Session GS-MM.2 Monday Morning Chair: Ahmed Benallal Room: VA.3

Time	ID	Authors	Title
11:40	63	J. Wang, H.-H. Dai	Phase Transitions Induced by Extension in a Slender SMA Cylinder: Analytical Solution for the Hysteresis Loop based on a Quasi-3D Continuum
12:00	72	D. Słota	Using Experimental Data for Numerical Identification of the Boundary Condition
12:20	191	N. Chiba, N. Ogasawara, X. Chen	Finite Element Study on Overshoot and Undershoot of Hardness in Film/Substrate Indentation

Session GS-MM.3 Monday Afternoon Chair: Marius Cocou Room: VA.3

Time	ID	Authors	Title
15:00	199	M. Chouman, M. Martinez, H. Haddadi	Constitutive Model Of Cyclic Plasticity Taking Into Account A Cyclic Yield Surface Distortion
15:20	203	H. Egner, W. Egner, B. Skoczko	Damage Development In Two-Phase Metallic Materials At Cryogenic Temperatures
15:40	231	V.I. Bolshakov, V.V. Danishevs'kyi, O.I. Ryzhkov, M. Stoffel	Dispersion of Shear Waves in Viscoelastic Cancellous Bones
16:00	240	P. Hess, A.M. Lomonosov, V.V. Kozhushko	Quantitative Study of Multi-Mode Fracture Mechanics: Contact-Free Laser-Based Investigation of Anisotropic Silicon

Session GS-MM.4 Monday Afternoon Chair: Peter Hess Room: VA.3

Time	ID	Authors	Title
16:40	262	A. Benallal, T. Børvik, O.S. Hopperstad, R.N. Codes	On the characteristics of Portevin-Le Chatelier instabilities and their predictions for AA5083-H116 aluminium alloy
17:00	265	P. Romanowicz, A.P. Zieliński	Application of Multiaxial High-cycle Fatigue Criteria to Rolling Contact Problem
17:20	266	Y. Luo, Z. Wang	Orthotropic Optimization Design of 1-1 Piezoelectric Composite Material Actuator/ Sensor Element
17:40	292	T. Stengel	Fracture Toughness of Steel Fibre Reinforced Ultra High Performance Concrete

Session GS-MM.5 Tuesday Morning Chair: Alberto Corigliano Room: VA.3

Time	ID	Authors	Title
10:00	325	C. Woźniak	A Tolerance Approach to the Mathematical Modelling of Functionally Graded Materials (FGM)
10:20	335	M. Dubé, V. Doquet	Investigation of the Thermo-Mechanical Behavior of a Borosilicate Glass Used for Nuclear Waste Vitrification
10:40	354	F. Szmytka, L. Rémy	Constitutive Elastic-Viscoplastic Models For Metallic Materials Used In The Automotive Industry
11:00	398	O.A. Terfas, B. Bezensek	The Influence of the Specimen Thickness on the CTOD Fracture Toughness

Session GS-MM.6 Tuesday Morning Chair: René R. Billardon Room: VA.3

Time	ID	Authors	Title
11:40	441	M. Cocou	A Dynamic Problem of Contact Interactions between Viscoelastic Bodies
12:00	462	K.P. Jayachandran, J.M. Guedes, H.C. Rodrigues	Effective Magnetoelectric Coupling of Multiferroics
12:20	467	E. Rejovitzky, E. Altus	A Micromechanical Fatigue Model with Micro-crack Coalescence
12:40	548	J. Jędrysiak	Tolerance Modelling of Thermoelasticity Problems of Multilayered Media

Session GS-MM.7 Wednesday Morning Chair: C. Britta Hirschberger Room: VA.6

Time	ID	Authors	Title
10:00	584	G. Ceglie, D. Bernard, P. Viot, O. Mondain-Monval, V. Schmitt, H. Deleuze,	Mechanical Properties of Calibrated Porous Polymer Materials Based on Emulsions
10:20	587	S. Dartois, S. Pommier, P.-A. Guidault	Contribution to a Multiscale Crack Growth Modelling Accounting for Plastic Behaviour at Crack Tip. Implementation in An X-FEM Code and Illustration
10:40	649	C. Ayas, E.V. Giessen	A Discrete Dislocation Framework for the Development of Intrinsic Stress During Thin Film Growth
11:00	650	J. Sweeney, S. Naz, P.D. Coates	Constitutive Modelling of Ultra High Molecular Weight Polyethylene

Session GS-MM.8 Wednesday Afternoon Chair: John Sweeney Room: O2.1

Time	ID	Authors	Title
16:40	671	C. Comi, A. Corigliano, A. Merassi, B. Simoni	A Surface Micromachined Resonant Accelerometer with High Resolution
17:00	684	S. Kumar, A.C.F. Cocks	Modelling the Growth of Imperfections in Thermal Barrier Coatings
17:20	691	F. Frey, S. Pommier, S. Patoatto, E. Galenne	Evidences of Crack Growth Rate Variations in Variable Amplitude Fatigue from Fractographics.
17:40	713	B. Hirschberger, R. Peerlings, M. Brekelmans, M. Geers	On the Dislocation Interactions Underlying Higher-Order Crystal Plasticity

Session GS-MM.9 Thursday Morning Chair: Howard Schreyer Room: VA.4

Time	ID	Authors	Title
10:00	727	P. Areias, N.V. Goethem, E.B. Pires	Ductile Fracture: Constrained Strong Ellipticity Condition and Non-Smooth Problems
10:20	857	J.P.M. Hoefnagels, C.C. Tasan, M.G.D. Geers	Comparison of Quantitative Damage Characterization Methodologies
10:40	822	R.B. Canto, N. Schmitt, F. Hild, R. Billardon	Identification of 3-D Elasto-Viscoplastic Constitutive Equations to Model Pure PTFE Powder Compaction

Session GS-MM.10 Friday Morning Chair: Nicolas Van Goethem **Room: VA.3**

Time	ID	Authors	Title
10:00	803	T. Fülöp, P. Ván	Plasticity, Thermodynamics and Rheology
10:20	749	J.S. Soares, K.R. Rajagopal, J.E. Moore	A Constitutive Model for Deformation-Induced Degradation of Polymers: Inflation and Extension of a Degradable Cylindrical Annulus
10:40	886	S. Castagnet, J.C. Grandidier, Y. Nadot, Q.H. Vu, A. Berrehili	Cyclic Behaviour of a Polyethylene Thermoplastic and Relationship to Multiaxial Fatigue Life
11:00	890	H.L. Schreyer	Combined Modeling of Inelastic Deformation and Failure in Concrete and Geological Materials

General Session:

Structural Mechanics

Session	Date		From	To	Room	Chairman
GS-SM.1	Monday	Morning	10:20	11:20	VA.5	Marta Kurutz
GS-SM.2	Monday	Morning	11:40	13:00	VA.5	Marek Szwabowicz
GS-SM.3	Wednesday	Afternoon	15:00	16:20	VA.6	Stefano Vidoli
GS-SM.4	Wednesday	Afternoon	16:40	18:00	VA.6	Lalaonirina Rakotomanana
GS-SM.5	Thursday	Morning	10:00	11:20	VA.5	Julio Cesar Valente Ferreira
GS-SM.6	Thursday	Morning	11:40	13:00	VA.5	Anthony Korte
GS-SM.7	Friday	Morning	10:00	11:40	VA.5	W. Barrie Fraser

Session GS-SM.1 Monday Morning Chair: Marta Kurutz Room: VA.5

Time	ID	Authors	Title
10:20	80	C.A.J. Miranda, E. Maneschy, P. Rodrigues	Structural Integrity Assessment of Angra 1 Steam Generator Tubing Using Deterministic and Statistic Methods – Past and Present
10:40	128	A.P. Seyranian, N. Olhoff	Bifurcation Analysis and Post-Buckling Behaviour of Bimodal Optimum Columns
11:00	150	K.L. Apedo, S. Ronel, E. Jacquelin, M. Massenzio, A. Bennani	Theoretical Analysis of Inflatable Beams Made from Orthotropic Fabric

Session GS-SM.2 Monday Morning Chair: Marek Szwabowicz Room: VA.5

Time	ID	Authors	Title
11:40	211	B. Tomczyk	Dynamical Stability of Uniperiodically Ribbed Cylindrical Shells
12:00	218	M. Chekchaki, V. Lazarus	Analytical and 3D Finite Element Study of the Residual Stresses Induced Deflection of an Elastic Cantilever Plate.
12:20	291	M. Asghari, A.R. Ghahremani, E. Ghafoori	Semi-Analytical Analysis of the Dynamic Response of Rectangular Plates under Traversing Moving Oscillator
12:40	295	S.N. Mikryukov, A.L. Smirnov	Free Vibrations of Plates and Shells with Cutouts

Session GS-SM.3 Wednesday Afternoon Chair: Stefano Vidoli Room: VA.6

Time	ID	Authors	Title
15:00	336	R.R. Rajaonah, L.R. Rakotomanana	Contribution to the Buckling of Plates: Influence of the Thermal Expansion Parameter on the Thermoelastic Eigenfrequencies and Modal
15:20	349	J. Blachut, O. Ifayefunmi	Combined Stability of Unstiffened Cones
15:40	409	H.-G. Kwak, J.-H. Kwaky	Long-term Ultimate Strength of Biaxially Loaded Slender RC Column
16:00	447	W.B. Fraser, G.H.M. van der Heijden	The Stability of a Whirling Transported String

Session GS-SM.4 Wednesday Afternoon Chair: Lalaonirina Rakotomanana Room: VA.6

Time	ID	Authors	Title
16:40	458	S. Vidoli, C. Maurini, A. Fernandes	Multiparametric Actuation of Bistable Plates: A Method to Avoid Snap-through Instabilities
17:00	463	M. Massenzio, E. Jacquelin, A. Bennani, S. Ronel, S. Ronel, J.P. Lain'e,	Assessing the Anti-Oscillator Model Parameters from Numerical or Experimental Data
17:20	486	Y.G. Pronina	Analytical Study of General Mechanochemical Corrosion of the Pipe Under the Axial Force and Pressure
17:40	532	M.L. Szwabowicz	Dimensional Reduction for Shells of Variable Thickness

Session GS-SM.5 Thursday Morning Chair: Julio Cesar Valente Ferreira **Room: VA.5**

Time	ID	Authors	Title
10:00	577	G. Martínez, C. Graciano, E. Casanova, O. Pelliccioni	Sensitivity Analysis of Expanded Metal Sheets Under Tension
10:20	579	A.P. Korte, G.H.M. van der Heijden	New Triangular Buckling Pattern of Twisted Inextensible Sheets
10:40	608	M.C. Oliveira, J.L. Alves, L.F. Menezes, R. Padmanabhan, A. Ramalho	Numerical Analysis of the Drawbead Friction Test Using a Pressure Dependent Coulomb's Friction Coefficient
11:00	701	H. Obrecht, U. Reinicke, M. Walkowiak	Thermal Buckling and Impact Performance of Lattice Structures

Session GS-SM.6 Thursday Morning Chair: Anthony Korte **Room: VA.5**

Time	ID	Authors	Title
11:40	811	L. Lopes, P. Neto, J. Alfaiate	The Influence of Geometrical Parameters on the Behaviour of Concrete – CFRP Interface
12:00	848	L.A. Borges, J.C.V. Ferreira	A Nonlinear Global-Local Model for the Analysis of Laminated Composite Plates
12:20	864	A. Watanabe, Y. Kotani, K. Nishimura, H. Watari, N. Koga	Elastic Deformation Characteristics of Die and A CNC Servo Press During Deep Drawing Process

Session GS-SM.7 Friday Morning Chair: W. Barrie Fraser **Room: VA.5**

Time	ID	Authors	Title
10:00	882	M. Birsan, H. Altenbach	On the Dynamical Theory of Thermoelastic Simple Shells
10:20	893	V.H. Nguyen, V.N. Le, M. Guadagnini, K. Pilakoutas	Effect of Shear on the Behaviour of RC Beams Retrofitted with Near Surface Mounted Reinforcement
10:40	912	E. Araque, C. Graciano	Strength of Partially Stiffened Cylinders under Axial Compression
11:00	964	L. Oroszváry, M. Kurutz	Finite Element Modeling and Simulation of Degeneration and Hydro-Traction Therapy of Human Lumbar Spine Segments

Mini-Symposium 02: **Biomechanics of Human Locomotion**

Organized by: Miguel Silva, Javier Alonso

Session	Date		From	To	Room	Chairman
MS-02.1	Monday	Afternoon	15:00	16:20	VA.5	Miguel Tavares da Silva
MS-02.2	Monday	Afternoon	16:40	18:00	VA.5	Javier Alonso
MS-02.3	Tuesday	Afternoon	15:00	16:20	VA.5	Jose Galvez
MS-02.4	Tuesday	Afternoon	16:40	17:40	VA.5	Jorge Martins

Session MS-02.1 Monday Afternoon Chair: Miguel Tavares da Silva Room: VA.5

Time	ID	Authors	Title
15:00	932	F.J.Alonso, D.R. Salgado, J. Cuadrado, P. Pintado	Automatic Smoothing of Raw Kinematic Signals Using SSA and Cluster Analysis
15:20	889	R.J.F.Portal, L.A.G. Sousa, J.M.P. Dias	Multibody Dynamics Method with Superquadric Contact Detection Model Applied to Biomechanics
15:40	324	A.Page, J. A. Galvez, H. de Rosario, V. Mata, J. M. Baydal	Optimal Average Path of the Instantaneous Screw Axis in 3D Human Movements
16:00	702	J.K.Fayad, A.D. Bue, L. Agapito, P.M.Q. Aguiar	Human Body Modelling Using Quadratic Deformations

Session MS-02.2 Monday Afternoon Chair: Javier Alonso Room: VA.5

Time	ID	Authors	Title
16:40	837	P.Moreira, M. Silva, P. Flores	Ground Foot Interaction in Human Gait: Modelling and Simulation
17:00	838	N.B.Monteiro, M.T. Silva, J.O. Folgado, J.L. Melancia	A New Approach to Analyze the Stress Distribution on a Multilevel Cervical/Lumbar Intersomatic Fusion
17:20	535	C.Carpentier, J. M. Font-Llagunes J. Kövecses	Dynamic and Energetic Analysis of Impacts in Crutch Locomotion
17:40	909	M.Machado, D.Lopes,J.Ambrósio, P. Flores, J. Pombo, M. Silva	Development and Implementation of a Generic Methodology for Contact Dynamics of the Human Knee Joint

Session MS-02.3 Tuesday Afternoon Chair: Jose Galvez Room: VA.5

Time	ID	Authors	Title
15:00	742	P.C.Silva, M.T. Silva, J.M. Martins	Evaluation of the Contact Forces Developed in the Lower Limb/Orthosis Interface for Comfort Design
15:20	625	A.Carvalho, A. Suleman	Neural Network Controller for an Anthropomorphic Hand Prosthesis
15:40	740	S. d'Orey, J. M. Martins, M. T. Silva	Analysis of the Cyclic Motion of Asymmetric Gait
16:00	12	N.Farhat, V. Mata, D. Rosa, J. Fayos, X. Peirau	Musculo-Skeletal Model For Knee Joint Forces Estimation in Sport Activities

Session MS-02.4 Tuesday Afternoon Chair: Jorge Martins Room: VA.5

Time	ID	Authors	Title
16:40	774	M.Raison, C. Detrembleur, P. Fisette, J.C. Samin	Muscle Overactuation Solving Method Based on a Multibody Approach Using a Refined Muscle Insertion Model
17:00	279	J.Ojeda, J. Mayo, J. Martínez-Reina	Influence of Different Aspects in Muscle Estimation
17:20	766	A.F.Pereira, M.T. Silva	Dynamic Calculation of the Musculoskeletal Loads in the Lower Limb and Consequent Application to the Structural Analysis of a Bone Element

Mini-Symposium 03: **Composite Materials**

Organized by: Pedro Camanho

Session	Date		From	To	Room	Chairman
MS-03.1	Monday	Morning	10:20	11:20	VA.2	Pedro Camanho
MS-03.2	Monday	Morning	11:40	13:00	VA.2	Michael Nieves
MS-03.3	Tuesday	Morning	10:00	11:20	O2.3	Paul Brühwiler
MS-03.4	Tuesday	Morning	11:40	13:00	O2.3	Maria Neto

Session MS-03.1 Monday Morning Chair: Pedro Camanho Room: VA.2

Time	ID	Authors	Title
10:20	953	A.Makris, C.Ramault, D.Hemelrijck, E. Lamkanfi, W. Van Paepegem	Damage Assessment of Cruciform Type Specimens under Biaxial Loading Conditions
10:40	212	A.Rutecka, L. Dietrich, Z.L. Kowalewski	Investigations of Fatigue Damage Development of A356+TiB2 Metal Matrix Composite
11:00	320	C.S.Lopes, P.P. Camanho, Z. Gürdal	Variable-Stiffness Composite Panels: Effects of Stiffness Variation on the Buckling and Failure Responses

Session MS-03.2 Monday Morning Chair: Michael Nieves Room: VA.2

Time	ID	Authors	Title
11:40	816	V.Monchiet, G. Bonnet	A Homogenization Approach for the Determination of the Effective Properties of Gradient Elastic Media
12:00	768	A.R.Melo, P.P. Camanho, F.M.A. Pires, S.T. Pinho	Simulation of the Micromechanical Non-Linear Behaviour of Long-Fibre Reinforced Polymers
12:20	52	Y.-S.Wang, W. Xu, D.-P. Wang	Nonlocal Elastic Analogy for Wave Propagation in Composites of Two-Dimensional Periodicity
12:40	109	M.-H.R.Jen, Y.-C. Sung, C.-W. Liu, F.-C. Hsu	Innovative Fabrication of Ti/Apc-2 Hybrid Composite Laminates and Their Mechanical Properties at Elevated Temperature

Session MS-03.3 Tuesday Morning Chair: Paul Brühwiler Room: O2.3

Time	ID	Authors	Title
10:00	309	S.Rjafiallah, S. Guessasma, L. Chaunier, D. Lourdun	Effective Properties of Starch-based Composites Subject to Interface Effect
10:20	511	H.Kalhor, H. Akhavan, H. Rokni D.T., A. Alibeigloo	Vibration Analysis of Functionally Graded Rectangular Plates Based on Mori-Tanaka Homogenization Scheme
10:40	685	M.A.Neto, W. Yu, T. Tang	Sensitivity Analysis and Optimization of Heterogeneous Materials Using the Variational Asymptotic Method for Unit Cell Homogenization
11:00	586	V.Maz'ya, A. Movchan, M. Nieves	Green's Kernels for Transmission Problems in Bodies with Small Inclusions

Session MS-03.4 Tuesday Morning Chair: Maria Neto Room: O2.3

Time	ID	Authors	Title
11:40	899	P.A.Brühwiler, M. Barbezat, A. Necola, O. Bunk, P. Pötschke	Comparison of Quasistatic to Impact Mechanical Properties of Multiwalled Carbon Nanotube-Polycarbonate Composites
12:00	261	A.Apicella, G. Iannuzzo, G. Albertini	Proposed Design Platform for Intensive Structural Computational Analysis

Mini-Symposium 04: **Computer Modeling of Industrial Forming Processes**

Organized by: Luís Menezes, Amílcar Ramalho

Session	Date		From	To	Room	Chairman
MS-04.1	Monday	Afternoon	16:40	18:20	O2.3	Luís Menezes

Session MS-04.1 Monday Afternoon Chair: Luís Menezes **Room: O2.3**

Time	ID	Authors	Title
16:40	310	H.Laurent, R.Grêze, M.C.Oliveira, A.Andrade-Campos, P.Y.Manach, J.L.	Springback of an Aluminium Alloy in Warm Forming Conditions using the Split-Ring Test
17:00	500	M.Skjoedt, M.B. Silva, N. Bay, P.A.F. Martins	Formability in Multistage Single Point Incremental Forming
17:20	712	M.Palengat, P. Latil, G. Chagnon, D. Favier, H. Louche, C. Pladeau	Thermomechanical Modelling of Cold Drawing Processes of Small Diameter Tubes
17:40	663	T.Zribi, A. Khalfallah, H. Belhadjsalah	Inverse Method for Flow Stress Parameters Identification of Tube Bulge Hydroforming Considering Anisotropy

Mini-Symposium 05: **Contact Mechanics**

Organized by: Michel Raous, Manuel Marques

Session	Date		From	To	Room	Chairman
MS-05.1	Monday	Morning	11:30	13:10	MA	Franco Maceri
MS-05.2	Tuesday	Afternoon	15:00	16:20	VA.3	Michel Raous
MS-05.3	Tuesday	Afternoon	16:40	18:20	VA.3	Manuel Monteiro Marques

Session MS-05.1 Monday Morning Chair: Franco Maceri Room: MA

Time	ID	Authors	Title
11:30	365	M.Raous, G.D. Piero	A Unified Model for Adhesive Interfaces With Damage, Viscosity and Friction
11:50	934	M.D.P.M.Marques	On Some Frictional Contact Model Problems
12:10	401	.A.C.Martins, N. Rebrova, E. Shchepakina, V. Sobolev	Stability of Quasi-Static Paths in Contact Mechanics Problems
12:30	187	A.P.Costa	Wedge Equilibrium States and Divergence Instabilities in Some Frictional Contact Problems
12:50	518	C.Glocker	Curve Squealing of Trains: A Linear Stability Analysis

Session MS-05.2 Tuesday Afternoon Chair: Michel Raous Room: VA.3

Time	ID	Authors	Title
15:00	921	J.Júdice	The Eigenvalue Complementarity Problem: Theory, Algorithms and Applications to Contact Problems
15:20	516	L.E.Andersson	Existence Results for Quasistatic Frictional Contact Problems and Frictional Wedging Problems
15:40	334	P.Ballard	Frictional Contact Problems for Thin Elastic Structures and Weak Solutions of Sweeping Process
16:00	141	G.Saxcé, M. Buliga, C. Vallée	Bipotentials for Unilateral Contact with Dry Friction: Fundamentals and Numerical Algorithms

Session MS-05.3 Tuesday Afternoon Chair: Manuel Monteiro Marques Room: VA.3

Time	ID	Authors	Title
16:40	767	M.A.Agwa, A.P. Costa	On A Sufficient Condition for Solution Uniqueness of the Quasi-Static Incremental Frictional Contact Problem
17:00	556	A.Petrov, M. Schatzman	On the Numerical Approximation of a Viscoelastic Problem with Unilateral Constraints
17:20	653	A.D.Muradova, G.E. Stavroulakis	Postbuckling Analysis of Rectangular Plates Resting on a Nonlinear Elastic Foundation
17:40	282	J.R.Fernández, R. Martínez, J.M. Viaño	Numerical Analysis of a Contact Problem Involving an Strain-Adaptive Bone Remodelling Process
18:00	514	R.Laniel, P. Alart, S. Pagano	From Discrete to Continuous Numerical Identification of Wire-Reinforced Geomaterial

Mini-Symposium 06: **Damage and Fracture**

Organized by: José César de Sá, K. Saanouni

Session	Date		From	To	Room	Chairman
MS-06.1	Tuesday	Morning	11:40	13:10	VA.2	José César de Sá
MS-06.2	Tuesday	Afternoon	15:00	16:20	VA.2	Saanouni Khemais
MS-06.3	Wednesday	Morning	10:00	11:40	VA.2	Michael Brünig
MS-06.4	Wednesday	Afternoon	15:00	16:20	VA.2	Claudia Comi
MS-06.5	Wednesday	Afternoon	16:40	18:30	VA.2	Solveig Melin
MS-06.6	Thursday	Morning	10:00	11:20	VA.2	Nikita Morozov
MS-06.7	Thursday	Morning	11:40	13:00	VA.2	Jindrich Petruska
MS-06.8	Friday	Morning	10:00	11:40	VA.2	David Durban

Session MS-06.1 Tuesday Morning Chair: José César de Sá Room: VA.2

Time	ID	Authors	Title
11:40	363	K.Saanouni, M. Almansba, N.E. Hannachi	Damage-Gradient Based Non Local Formulations Revisited
12:10	737	S.Cleja-Tigoiu, V. Tigoiu	Strain Gradient Effect on Elasto-Plastic Damaged Materials at Large Deformations
12:30	869	F.X.C.Andrade, J. M.A.C. Sá, F.M.A. Pires, L. Malcher	Prediction of Ductile Failure in Metal Forming Considering an Internal Length Scale
12:50	123	J.Velde, U. Kowalsky, T. Zümendorf, D. Dinkler	3D-Analysis of Steel Damage Under Dynamic Excitation

Session MS-06.2 Tuesday Afternoon Chair: Saanouni Khemais Room: VA.2

Time	ID	Authors	Title
15:00	19	M.Brünig, D. Albrecht, S. Gerke	Damage and Fracture Criteria Based on Different Micro-Mechanisms
15:20	307	J.Petruska, J. Hulka, J. Borkovec	Computational Simulation of Material Cutting Processes
15:40	878	A.Hor, J.-L. Lebrun, F. Morel	Experimental Study and Local Approach Modelling of Ductile Damage in Steels Over a Wide Temperature Range
16:00	805	L.Malcher, F.M.A. Pires, J.M.A.C. Sá, F.X.C. Andrade	Numerical Integration Algorithm of a New Model for Metal Plasticity and Fracture Including Pressure and Lode Angle Dependence

Session MS-06.3 Wednesday Morning Chair: Michael Brünig Room: VA.2

Time	ID	Authors	Title
10:00	647	B.D.Buco, M.Oliveira, J.Alves, L. Menezes, K.Ito,G.Uemura, N.Mori	Local Bifurcation and Instability Theory Applied to Formability Analysis
10:20	839	P.Teixeira, F.M.A. Pires, A.D. Santos, J.M.A.C. Sá, A.B. Rocha	Modelling Material Failure in Metal Forming Processes
10:40	521	K. Karimbaev, A. Servetnik	Energy-based Method for Gas Turbine Engine Disk Burst Speed Calculation
11:00	209	K.Naumenko, H. Altenbach, A. Kutschke	A Constitutive Model for Creep and Long-Term Strength in Advanced Heat Resistant Steels and Structures
11:20	51	N. Morozov	The Dynamical Fracture of Rocks

Session MS-06.4 Wednesday Afternoon Chair: Claudia Comi Room: VA.2

Time	ID	Authors	Title
15:00	460	S.Melin, P. Hansson	Characteristics of Short Fatigue Crack Growth in the Vicinity of a Low Angle Grain Boundary
15:20	581	P.Evrard, M. Sauzay	FE Study of Strain Localization on Intergranular Fracture in Metallic Polycrystals
15:40	114	Y.Ochi, K. Masaki, T. Matsumura, Y. Sano	Laser and Shot Peening Effects on High Cycle Fatigue Property in Austenitic Stainless Steel
16:00	122	K.Shiozawa, Y. Shimatani, T. Nakada	Effect of Inclusion Size and Residual Stress on Gigacycle Fatigue Properties of High Speed Tool Steel

Session MS-06.5 Wednesday Afternoon Chair: Solveig Melin Room: VA.2

Time	ID	Authors	Title
16:40	526	C.Comi, U. Perego	Anisotropic Damage Model for Concrete Affected by Alkali-Aggregate Reaction
17:10	919	M.A.M.Shzu, G. Doz	Dynamic Crack Growth Analysis in Concrete Beams Using the Discrete Element Method
17:30	137	I.M.Dunaev, V.I. Dunaev	Macroscopic Criterion for Brittle Fracture of Solids
17:50	642	A.Piccolroaz, G. Mishuris, A.B. Movchan	Unsymmetrical Loading of Interfacial Cracks

Session MS-06.6 Thursday Morning Chair: Nikita Morozov Room: VA.2

Time	ID	Authors	Title
10:00	706	H.Amor, J.-J. Marigoz, C. Maurini, N.K.H. Pham	A Regularized Variational Formulation of Fracture Mechanics with Unilateral Contact at Crack Lips
10:20	574	L.Contrafatto, M. Cuomo	A Variational Formulation of the Equilibrium Problem for a Damaging Continuum in the Context of the Strong Discontinuities Approach
10:40	125	R.Kienzler, L. Rohde, R. Schröder	On Path-Independent Integrals and it's Application to Defect Mechanics
11:00	140	E.D.Leonel, W.S Venturini	Analysis of Crack Growth in Reinforced Solids Using Boundary Element Formulation

Session MS-06.7 Thursday Morning Chair: Jindrich Petruska Room: VA.2

Time	ID	Authors	Title
11:40	478	G.F.Santos, F.J. C. P. Soeiro, J.G.S. Silva	Structural Damage Assessment using a Global Optimization Technique
12:00	799	G.Zagari, S. Fortino, G. Dill-Langer	FEM Simulation of Crack Growth in Glulam by Using a 3D Orthotropic-Viscoelastic Model and Cohesive Elements
12:20	505	T.Cohen, D. Durban	Dynamic Cavitation in Porous Plastic Solids
12:40	138	A.Amvrosieva, V. Musalimov	Fracturing Mechanism of the Push-Wire Connector

Session MS-06.8 Friday Morning Chair: David Durban Room: VA.2

Time	ID	Authors	Title
10:00	856	C.C.Tasan, J.P.M. Hoefnagels, M.G.D. Geers	Indentation Based Damage Quantification Methodology Revisited
10:20	632	H.Itoga, H. Noguchi, S. Hamada	Effect of Crosshead Speed on Tensile Strength in High Pressure Hydrogen Gas Environment for High Strength Steel
10:40	657	.Kolluri, J.P.M. Hoefnagels, J.A.W. Dommelen, M.G.D. Geers	Refinements to the Miniature Mixed Mode Bending Device for Interface Delamination Characterization
11:00	795	H.Chai	Microstructural Aspects in Fracture of Human Teeth From Occlusal Loading

Mini-Symposium 07:

Force Chain Fluctuations and Jamming in Dense Granular Flows

Organized by:

Corey S. O'Hern, Lou Kondic

Session	Date		From	To	Room	Chairman
MS-07.1	Tuesday	Afternoon	15:00	16:20	O2.2	Lou Kondic
MS-07.2	Tuesday	Afternoon	16:40	18:20	O2.2	Corey O'Hern
MS-07.3	Wednesday	Morning	10:00	11:40	O2.2	Karen Daniels
MS-07.4	Wednesday	Afternoon	15:00	16:20	O2.2	Mark Shattuck
MS-07.5	Wednesday	Afternoon	16:40	18:20	O2.2	Clement Eric

Session MS-07.1 Tuesday Afternoon Chair: Lou Kondic Room: O2.2

Time	ID	Authors	Title
15:00	592	R. P.Behringer, J. Zhang, T.S. Majmudar	Statistical Properties of Granular Materials Near Jamming
15:20	300	B.Chakraborty, S. Tewari, A. Ferguson	Growing Length Scale and Dynamical Heterogeneities in Gravity-Driven Dense Granular Flow
15:40	56	S.Luding	Structure and Stress Anisotropy in Granulates with Friction and Adhesion
16:00	290	M.Schröter, J.-F. Metayer, T. Suntrup, H.L. Swinney, C. Radin	Yield Stress and Dilatancy in Sheared Granular Matter

Session MS-07.2 Tuesday Afternoon Chair: Corey O'Hern Room: O2.2

Time	ID	Authors	Title
16:40	100	J.Dijkstra, G. Wortel, M.V. Hecke	Tribovibrheology: Shaking and Shearing of Granular Media
17:00	236	M.D.Shattuck, P.M. Reis, R. Ingale	Shaken, Not Stirred: Granular Equilibrium
17:20	303	K.E.Daniels, F. Lechenault, J.G. Puckett	State Variables in Equilibrating Granular Subsystems
17:40	725	Z.Zeravcic, W.V. Sarloos, D.R. Nelson	Localization of Vibrations in Granular Systems
18:00	641	K.Mischaikow	Quantifying and Classifying Spatial Temporal Patterns using Computational Topology

Session MS-07.3 Wednesday Morning Chair: Karen Daniels Room: O2.2

Time	ID	Authors	Title
10:00	362	L.Kondic, X. Fang, R.P. Behringer	On Energy Transport and Force Chains in Dense Granular Matter
10:20	472	N.P.Kruyt	Force Fluctuations in Quasi-Static Deformation of Granular Materials: Deviations from Mean-Field Behaviour
10:40	616	L.E.Silbert	Force Response in Granular Packings
11:00	87	M.Mailman, C.F. Schreck, C.S. O'Hern, B. Chakraborty	Jamming in Systems Composed of Frictionless Ellipse-Shaped Particles
11:20	117	P.G.Lind	Sequential Random Polydisperse Packings: Theory and Applications

Session MS-07.4 Wednesday Afternoon Chair: Mark Shattuck **Room: O2.2**

Time	ID	Authors	Title
15:00	638	M.Sperl, E. Stärk	Random-Close Packing and Glass Transitions in Twodimensional Binary
15:20	274	S.Henkes, M.V. Hecke, W.V. Saarloos	Soft Modes in Packings of Frictional Grains
15:40	873	E.Clément, R. Harich, G. Lumay	Mobility and Rheology in a Vibrated Granular Packing
16:00	239	J.-L.Barrat	Particle Based Modeling of the Elastic and Plastic Response of Amorphous Materials
16:40	908	V.Vitelli, N. Xu, M. Wyart, A.J. Liu, S.R. Nagel	Energy Propagation and Localization in Jammed Sphere Packings

Session MS-07.5 Wednesday Afternoon Chair: Clement Eric **Room: O2.2**

Time	ID	Authors	Title
16:40	226	B.Tighe, E. Woldhuis, J. Remmersy, M.Hecke, W.Saarloos	Local Forces and Rheology in Disordered Media Near Jamming
17:00	961	S.Slotterback, J. Weiss, W. Losert	Three Dimensional Imaging of Segregation in Granular Flows
17:20	411	I.Goldhirsch	Coarse Graining from the Grain Scale
17:40	130	H.J.Herrmann, M.P. Almeida, J. R. Parteli, J.S. Andrade Jr	Particle Drag Along the Surface

Mini-Symposium 08: **Image Processing and Visualization in Solid Mechanics Processes**
 Organized by: João Tavares, M. Audette

Session	Date		From	To	Room	Chairman
MS-08.1	Wednesday	Morning	10:00	11:40	O2.1	João Tavares
MS-08.2	Wednesday	Afternoon	15:00	16:20	O2.1	João Tavares

Session MS-08.1 Wednesday Morning Chair: João Tavares **Room: O2.1**

Time	ID	Authors	Title
10:00	263	A.Jumpasut, N.Petricin, B.C.Elliott, C.R. Siviour, M.R. Arthington	An Investigation of the Effects of Lighting Conditions on Target Detection in Impact Engineering Experiments
10:20	308	V.Trummer,E.Marques,F.Chaves, J.M.Tavares,L.Silva,P. de Castro	Analysis of the Crack Growth Behavior in a Double Cantilever Beam Adhesive Fracture Test using Digital Image Processing Techniques
10:40	443	.Gentil, C. Garbe, M. Parente, P. Martins, R.N. Jorge	Analysis of the Middle Ear Ligaments
11:00	490	C.Garbe, F. Gentil, M.P.L. Parente, P.A.L.S. Martins, R.N. Jorge	Dynamic Analysis of Tympanic Membrane Layers
11:20	517	T.Roza,C.Saleme,RJorge, M. Barbosa,M.Parente, A.Filho, T.	Establishment of the Moment of Inertia of Female Pelvic Floor Muscles by using Manual Segmentation

Session MS-08.2 Wednesday Afternoon Chair: João Tavares **Room: O2.1**

Time	ID	Authors	Title
15:00	602	J.Assis, I. Lima, G.Carvalho, R. Einsfeld,J.Pessôa,R.Breder,R. Lopes	Concrete Matrix Porosity Study by Microtomography Images
15:20	659	A.J.C.Arteiro, M.L. Parente, R.M.N. Jorge, T. Mascarenhas	Construction of a 3D Model for the Female Pelvic Organs
15:40	667	J.Xavier, P. Custódio, J. Morais, R. Guedes	Assessing Mechanical Properties of a Polymer Material by a Video Extensometer Technique
16:00	736	N.Ribeiro,P.Fernandes,D.S.Lopes J.O. Folgado, P.R. Fernandes	3-D Solid and Finite Element Modeling of Biomechanical Structures - A Software Pipeline

Mini-Symposium 09: **Macro-Micro-Nano Approaches in Material Mechanics**

Organized by: Georges Cailletaud, Reinhard Pippan

Session	Date		From	To	Room	Chairman
MS-09.1	Wednesday	Afternoon	15:00	16:20	VA.5	Georges Cailletaud
MS-09.2	Wednesday	Afternoon	16:40	18:00	VA.5	Reinhard Pippan
MS-09.3	Thursday	Morning	10:00	11:20	VA.3	Javier LLorca
MS-09.4	Thursday	Morning	11:40	13:00	VA.3	Fabrice Barbe
MS-09.5	Friday	Morning	10:00	11:20	VA.1	Frank Wendler

Session MS-09.1 Wednesday Afternoon Chair: Georges Cailletaud Room: VA.5

Time	ID	Authors	Title
15:00	18	F.D.Fischer, J. Svoboda, D. Vollath	Formation of Hollow Nanospheres from Metallic Solid Nanospheres
15:20	98	J.Avsec	Nanofluid and Ferrofluid Slip Flow in Rectangular and Circular Microchannels
15:40	154	F.Fritzen, T. Böhlke, K. Jöchen	Homogenization of Three-Dimensional Micro-Heterogeneous Materials Using Nonuniform Transformation Fields
16:00	256	M.Mázdziarz, T.Young, P.Dłużewski, T. Wejrzanowski, K.Kurzydowski	Molecular-Statics Modeling of Nanoindentation of Mono and Polycrystalline Copper

Session MS-09.2 Wednesday Afternoon Chair: Reinhard Pippan Room: VA.5

Time	ID	Authors	Title
16:40	278	J.LLorca, J. Segurado	Simulation of Void Growth in FCC Single Crystals and Polycrystals Using Discrete Dislocation Dynamics
17:00	293	H.M.Shodja, L. Pahlevani, S.M. Tabatabaei, A. Ostadhossein	An Atomistic Study of Ultra-Thin Ag Film Doped with Cu Atoms Within Cuboidal Domains
17:20	364	F.Wendler, B. Nestler	A phase-Field Model for Cellular Materials: Microstructure Evolution in Dry and Wet Foams

Session MS-09.3 Thursday Morning Chair: Javier LLorca Room: VA.3

Time	ID	Authors	Title
10:00	386	S.Nezamabadi, H. Zahrouni, J. Yvonnet, M. Potier-Ferry	Multiscale Microbuckling Analysis of Elastoplastic Long Fiber Composites
10:20	464	F.Barbe, R. Quey, A. Musienko	Morphological Characterization of Stress and Strain Localization in 3D High Resolution Elastoplastic Polycrystals
10:40	476	S.Wurster, C. Motz, R. Pippan	Micrometer-sized Tungsten Specimen Testing Using Ion Slicing and Focused Ion Beam Techniques
11:00	497	K.Danas, V. Deshpande, N.A. Fleck	The Role of Surface Coatings in Size Effects: Discrete Dislocations vs. Strain-Gradient Crystal Plasticity

Session MS-09.4 Thursday Morning Chair: Fabrice Barbe Room: VA.3

Time	ID	Authors	Title
11:40	515	M.Rester, C. Motz, R. Pippan	The Evolution of the Microstructure During Indentation and It's Impact on the Indentation Size Effect
12:00	559	I.Ertürk, J. Bielen, J.A.W.V. Dommelen, M.G.D. Geers	A Strain Gradient Crystal Plasticity Based Creep Model for Electrostatically Loaded Free-Standing Thin Films
12:20	580	M.I.Idiart, O.L.- Pamies	An Exact Result for the Macroscopic Response Porous Neo-Hookean Solids
12:40	664	S.Kruch	Multi-Scale Analysis of Structures Reinforced with Metal Matrix Composites

Session MS-09.5 Friday Morning Chair: Frank Wendler Room: VA.1

Time	ID	Authors	Title
10:00	741	U.Schmidt, P. Steinmann, S. Ricker, P. Greil, T. Fey, B.C. Nicolat	Computational Homogenization of Heterogeneous Solids Obeying Coupled (Mechanical/Non-Mechanical) Material Behaviour in 3-D
10:20	783	A.Di Carlo, M. Paoluzzi, M.R. Crivellari	A Reappraisal of the Andersen-Parrinello-Rahman Method in a Multi-Scale Perspective
10:40	860	G.Cailletaud, S. Basseville, F. Curtit, Y.Guilhem, A.Musienko, H.Proudhon, J.-	Numerical Simulations of Cracks in Polycrystalline Aggregates
11:00	124	G.Monnet	Multiscale Simulations: How Can Dislocation Dynamics Simulations Account for Atomic Simulation Results

Mini-Symposium 10: **Mechanics of Cellular and Network-like (Bio)Materials**

Organized by: Patrick R. Onck, Michelle L. Oyen

Session	Date		From	To	Room	Chairman
MS-10.1	Monday	Afternoon	15:00	16:20	O2.1	Patrick Onck
MS-10.2	Monday	Afternoon	16:40	18:00	O2.1	Alexander Spector
MS-10.3	Tuesday	Afternoon	16:40	18:20	O2.1	Stephane Roux

Session MS-10.1 Monday Afternoon Chair: Patrick Onck Room: O2.1

Time	ID	Authors	Title
15:00	718	M.Durand, G. Gurtner	Architecture of Stiff Elastic Networks
15:20	436	R.Jänicke, S. Diebels	Micromorphic Continua: Macro Level versus Two-Level FEM
15:40	533	L.Mezeix, Y. Ping, C. Bouvet, D. Poquillon	Fiber Networks Made of Entangled Cross-Linked Fibers. Effects of the Fiber Length and of Mixing Different Fibers on Compression Properties
16:00	643	S.Roux, J.-N. Périé, F. Hild	3D Digital Image Correlation Technique Applied to in Situ Loaded Foam-Like Materials

Session MS-10.2 Monday Afternoon Chair: Alexander Spector Room: O2.1

Time	ID	Authors	Title
16:40	645	I.Duarte, F. Teixeira-Dias, A. Graça, V. Miranda	Deformation Mechanisms of Closed-Cell Aluminium Alloy Foams under Uniaxial Compression
17:00	672	N.Tuncer, E. Maire, L. Salvo, G. Arslan	Pore Structure-Compressive Property Relationship in Titanium Foams
17:20	404	T.K.Bader, K. Hofstetter, Ch. Hellmich, J. Eberhardsteiner	Homogenization and Localization in a Multiscale Microporomechanical Model for Wood Strength
17:40	859	I.Burgert, P. Fratzl	The Orientation of Cellulose Microfibrils in Cell Walls Enables Plants to Function as Sophisticated Mechanical Devices

Session MS-10.3 Tuesday Afternoon Chair: Stephane Roux Room: O2.1

Time	ID	Authors	Title
16:40	527	A.E.X.Brown, R.I. Litvinov, D.E. Discher, P.K. Purohit, J.W. Weisel	Fibrin Networks Sustain Large Extensions Due to Unfolding Proteins
17:00	807	G.Žagar, P.R. Onck, E.V. Giessen	Small Strain Mechanics of Cross-Linked Biopolymer Networks
17:20	847	L.Porcar, K. Weigandt, D. Pozzo	Relating The Structure and Mechanical Properties of Fibrin Clots With SANS/USANS
17:40	624	A.A.Spector, K.R. Schumacher, A.S.Popel,B.Anvari,W.E.Brownell	Computational Modeling of Tether Pulling Experiment to Probe Cellular Membranes

Mini-Symposium 12:

Modeling of Biological Materials

Organized by:

Gerhard Holzapfel, Markus Böl, S. Bordas

Session	Date		From	To	Room	Chairman
MS-12.1	Monday	Morning	10:20	11:30	O2.1	Gerhard A. Holzapfel
MS-12.2	Monday	Morning	11:40	13:00	O2.1	Markus Böl
MS-12.3	Tuesday	Morning	10:00	11:20	O2.1	John Botsis
MS-12.4	Tuesday	Morning	11:40	13:00	O2.1	Paul Watton
MS-12.5	Tuesday	Afternoon	15:00	16:20	O2.1	Jonas Stalhand

Session MS-12.1 Monday Morning Chair: Gerhard A. Holzapfel Room: O2.1

Time	ID	Authors	Title
10:20	491	P.N.Watton, Y. Ventikos, G.A. Holzapfel	Constitutive Modelling of Arterial Tissue for Cerebral Aneurysmal Disease
10:50	694	M.Luca	Mathematical and Numerical Models for the Deformation of Cerebral Aneurysm Walls
11:10	341	D.Balzani, S. Brinkhues, G.A. Holzapfel	Comparative Study of Polyconvex Strain-Energy Functions used for the Modeling of Damage Hysteresis in Overstretched Arterial Walls

Session MS-12.2 Monday Morning Chair: Markus Böl Room: O2.1

Time	ID	Authors	Title
11:40	347	A.E.Ehret, M. Itskov, G. Weinhold	A Viscoelastic Model for Soft Biological Tissues Including Collagen Fibre Distribution - Computational Aspects
12:00	420	A. DiCarlo, P. Nardinocchi, T. Svatoň, L. Teresi	Modelling the Active Response of Excitable Tissues: a Fibred Caricature of the Left Ventricle
12:20	958	G.A.Holzapfel, R.W. Ogden	A New Structurally-Based Framework for the Material Characterization of Passive Myocardium

Session MS-12.3 Tuesday Morning Chair: John Botsis Room: O2.1

Time	ID	Authors	Title
10:00	321	S.Rausch, W.A. Wall	Parameter Identification for Modelling Alveolar Tissue on Different Scales
10:20	786	B.Notarberardino, P.G Young, L. Hao, I.G Turner	Image-Based Simulation for the Mechanical Characterization of Scaffolds
10:40	777	PMartins, EPeña, Begoña, MDoblaré, T.Mascarenhas, R.Jorge, A. Ferreira	Mechanical Characterization of Vaginal Tissue using a "Tissue Specific" Model
11:00	465	M.Böl, A.E. Ehret, M. Itskov	On a Constitutive Continuum Model for the Active Behaviour of Skeletal Muscles

Session MS-12.4 Tuesday Morning Chair: Paul Watton Room: O2.1

Time	ID	Authors	Title
11:40	257	J.Stålhand, A. Klarbring, G.A. Holzapfel	A Unified Theory for the Three-Dimensional Mechanochemical Contraction of Smooth Muscles
12:00	424	M.Kalda, P. Peterson, M. Vendelin	Mechanoenergetics of Actomyosin Interaction Analyzed by a Cross-Bridge Model
12:20	924	M.P.L.Parente, R.M.N. Jorge, A. Fernandes, T. Mascarenhas	On the Use of Different Material Properties to Simulate The Biomechanical Behavior of the Pelvic Floor Muscles During Vaginal Delivery
12:40	301	S.Givli, H. Giang, K. Bhattacharya	Modeling Multi-Phase Biological Membranes: Instabilities Driven by Coupling Between Shape and Composition

Session MS-12.5

Tuesday Afternoon

Chair: Jonas Stalhand

Room: O2.1

Time	ID	Authors	Title
15:00	600	M.Galli, M.L. Oyen, A.J. Bushby	Mapping of Bone Poroelastic Properties by Nanoindentation
15:20	343	J.Botsis, M. Bergomi, J. Cugnoni, H.W.A. Wiskott, U.C. Belser	The Effects of the Fluid on the Mechanical Response of the Periodontal Ligament in Tension and Compression
15:40	22	M.Kroon	Strengthening and Remodelling of Collagenous Networks
16:00	170	R.Grytz, G. Meschke	Glaucoma and Computational Two-Scale Modeling and Remodeling of the Optic Nerve Head

Mini-Symposium 13:

Modelling, Simulation and Testing of Composite and Adaptive Structures

Organized by:

Cristovão M. Soares, Jan Blachut

Session	Date		From	To	Room	Chairman
MS-13.1	Wednesday	Morning	10:00	11:20	VA.1	Jan Blachut
MS-13.2	Wednesday	Afternoon	16:40	18:00	VA.1	Cristóvão M. Mota Soares
MS-13.3	Thursday	Morning	10:00	11:20	VA.1	Johannes van Dommelen
MS-13.4	Thursday	Morning	11:40	13:00	VA.1	Andreas Christoforou

Session MS-13.1 Wednesday Morning Chair: Jan Blachut Room: VA.1

Time	ID	Authors	Title
10:00	28	G.M.Kulikov, S.V. Plotnikova	Effective Geometrically Exact Piezoelectric Solid-Shell Element Based on 3D Analytical Integration
10:20	33	J.SMoita, A.L.Araújo, P.G.Martins, C.M.M. Soares, C.A.M. Soares	Analysis of Active-Passive Plate Structures using a Simple and Efficient Finite Element Model
10:40	50	M.Johlitz, S. Diebels	Determination of Nano-Filled Polymers' Effective Mechanical Behaviour
11:00	97	J.V.A.Santos	Vibration Based Evaluation of Singlewalled Carbon Nanotubes Elastic Moduli

Session MS-13.2 Wednesday Afternoon Chair: Cristóvão M. Mota Soares Room: VA.1

Time	ID	Authors	Title
16:40	151	A.P.Christoforou, A.S. Yigit	Dynamic Similitude of Impact Response in Composite Structures
17:00	175	J.A.W.V.Dommelen, M. Samimi, M.G.D. Geers	An Enriched Cohesive Zone Model for Delamination in Brittle Interfaces
17:20	205	C.M.Roque, A.J.Ferreira, A.M. Neves, C.M.M.Soares, R.M.Jorge	Transient Analysis of Composite and Functionally Graded Plates By Radial Basis Functions in a Pseudospectral Framework
17:40	242	T.Jungblut, H. Atzrodt, T. Drögemüller, S. Herold	Transient Simulation of a Hybrid Test Rig for Broadband Loading

Session MS-13.3 Thursday Morning Chair: Johannes van Dommelen Room: VA.1

Time	ID	Authors	Title
10:00	358	E.Magnucka-Blandzi	Strength and Vibrations of Sandwich Beams with a Metal Foam Core in Three Non-Linear Hypotheses
10:20	419	P.Kere, M. Lyly	Reissner-Mindlin-Von Kármán Type Shell Facet Model for Buckling Simulation of Imperfect Cylindrical Composite Shells
10:40	557	M.Krommer, Y. Vetyukov	Optimal Strain-Type Sensors for Shell Structures: Sensing of Kinematic Quantities in the Vicinity of a Large Pre-Deformation and ...
11:00	561	G.Formica, W. Lacarbonara	Eshelby-Like Equivalent Continuum Modeling of Carbon Nanotube-Based Composites

Session MS-13.4 Thursday Morning Chair: Andreas Christoforou Room: VA.1

Time	ID	Authors	Title
11:40	572	A.L.Araújo, C.M.M. Soares, C.A.M. Soares, J. Herskovits	Inverse Estimation of Elastic, Viscoelastic and Piezoelectric Properties of Anisotropic Sandwich Adaptive Structures
12:00	610	J.Blachut	Buckling of Shallow Spherical Caps from Composites
12:20	938	F.Moleiro, C.M.M. Soares, C.A.M. Soares, J.N. Reddy	Analysis of Multilayered Composite Plates by Layerwise Mixed Least-Squares Finite Element Models
12:40	977	U.Gabbert, S. Ringwelski, C. Willberg, J.M. Perez	Piezoelectric Smart Structures to Control Vibration and Noise and Simultaneously Monitoring the Structural Health

Mini-Symposium 14: **Multibody Dynamics**

Organized by: Paulo Flores, Javier Cuadrado

Session	Date		From	To	Room	Chairman
MS-14.1	Tuesday	Morning	10:00	11:20	VA.4	Javier Cuadrado
MS-14.2	Tuesday	Morning	11:40	13:00	VA.4	Janusz Fraczek
MS-14.3	Wednesday	Morning	10:00	11:40	VA.4	Holger Lang
MS-14.4	Wednesday	Afternoon	16:40	18:20	VA.4	Paulo Flores

Session MS-14.1 Tuesday Morning Chair: Javier Cuadrado Room: VA.4

Time	ID	Authors	Title
10:00	252	F.J.González, M. González, A. Mikkola	Combined Use of Matlab/Simulink and Multibody Simulation Software Based on C++
10:20	781	J.Fraczek, M. Wojtyra	Interdisciplinary Applications of Multibody Modeling and Simulations
10:40	929	D.S.Lopes, M.T. Silva, J. Ambrósio	A Mathematical Framework for Contact Detection between Quadric and Superquadric Surfaces
11:00	311	N.Bolotnik, M. Pivovarov, I. Zeidis, K. Zimmermann, S.F. Jatsun	Dynamics of Vibration Driven Systems

Session MS-14.2 Tuesday Morning Chair: Janusz Fraczek Room: VA.4

Time	ID	Authors	Title
11:40	318	P.Flores, R. Leine, C. Glocker	Application of the Nonsmooth Dynamics Formulation to Model and Analyze the Contact-Impact Events in Slider-Crank and Cam-Follower Systems
12:00	923	C.M.Pereira, J. Ambrósio, A.L. Ramalho	A Methodology for the Generation of Models for Multibody Chain Drives
12:20	879	R.Portal, L. Sousa, J. Dias, N. Santos	Contact Detection of Convex Superquadric Using Optimization Techniques with Graphical User Interface
12:40	136	I.I.Kosenko, E.B. Aleksandrov	Implementation of the Contensou–Erismann Tangent Forces Model in the Hertz Contact Problem

Session MS-14.3 Wednesday Morning Chair: Holger Lang Room: VA.4

Time	ID	Authors	Title
10:00	280	S.Huber, P. Eberhard	Development of a High Speed Test Bench for Seat Belt Systems
10:20	204	M.Carvalho, J. Ambrósio	Optimal Identification of Multibody Vehicle Models for Crash Analysis
10:40	633	T.Shiiba, Y. Ueno, R. Kawauchi, W. Murata	Tire-Suspension HILS System with Real-Time Multibody Analysis
11:00	283	P.Somoia, V. NuŃu, C.-E. Moldoveanu	Theoretical and Experimental Researches Concerning Launching Devices Stability during Firing
11:20	76	X.Rui, B. Rong, G. Wang, F. Yang	Advances in Discrete Time Transfer Matrix Method for Controlled Multibody System

Session MS-14.4 Wednesday Afternoon Chair: Paulo Flores Room: VA.4

Time	ID	Authors	Title
16:40	735	J.P.Meijaard, W.B.J. Hakvoort	Modelling of Fluid-Conveying Flexible Pipes in Multibody Systems
17:00	488	.Linn, H. Lang	A Multibody System Type Modelling Approach to Geometrically Exact Rods using Geometric Finite Differences
17:20	254	A.A.Burov, A.D. Guerman, Sulikashvili	Dynamics of a Tetrahedral Constellation of Satellites-Gyrostats
17:40	89	C.H.Liu	Locating Direct Kinematic Singular Positions of Parallel Manipulators

Mini-Symposium 15:

Multiscale Modeling of Ductile and Brittle Damage in Solids: Recent Progresses and New Trends

Organized by:

Cristian Dascalu, D. Kondo

Session	Date		From	To	Room	Chairman
MS-15.1	Monday	Afternoon	15:00	16:20	VA.2	Cristian Dascalu
MS-15.2	Monday	Afternoon	16:40	18:00	VA.2	Djimed Kondo
MS-15.3	Tuesday	Morning	10:00	11:20	VA.2	Somnath Ghosh
MS-15.4	Tuesday	Afternoon	16:40	18:20	VA.2	Julia Mergheim

Session MS-15.1 Monday Afternoon Chair: Cristian Dascalu Room: VA.2

Time	ID	Authors	Title
15:00	107	J.J.Marigo, C. Pideri	The Effective Behaviour of (Heterogeneous) Elastic Bodies Containing Defects Localized on a Surface
15:20	126	D.Halm, S. Dartois, C. Nadot-Martin, A. Dragon, A. Fanget	Micromechanical Modelling of Discrete Damage Evolution in Highly-Filled Particulate Microstructures. Numerical Illustration of Local Damage ...
15:40	186	J.-B. Leblond, M. Gologanu	Toward a Gurson-Type Model for Porous Ductile Materials Containing Arbitrary Ellipsoidal Voids
16:00	258	P.Bésuelle, S.Hall, N.Lenoir, J.Desrues, G.Viggiani, M.Bornert,	Investigation of Localized Deformation in Granular Materials By Means of X-ray CT and Grain Scale Digital Volume Correlation

Session MS-15.2 Monday Afternoon Chair: Djimed Kondo Room: VA.2

Time	ID	Authors	Title
16:40	344	O.Lloberas Valls, D.J. Rixen, A. Simone, L.J. Sluys	A Domain Decomposition Approach to Multiscale Analysis for Structures with Softening Materials
17:00	549	M.Geers, E.Coenen, I.Özdemir, V.Kouznetsova, W.Breklemans	Scale Transitions for Localized and Thermo-Mechanical Damage
17:20	567	L.Truskinovsky	Criticality in Martensites
17:40	651	I.Monetto	On Micromechanics-Based Nonlocal Modeling of Elastic Matrices Weakened by Voids

Session MS-15.3 Tuesday Morning Chair: Somnath Ghosh Room: VA.2

Time	ID	Authors	Title
10:00	674	D.Kondo, J. Lin, W. Chen, V. Monchiet, J.-F. Shao	On Anisotropic Modelling of Poroplastic Behavior of Media Containing Saturated Microcracks
10:20	880	T.Pardoën, F.Scheyvaerts, C.Tekoglu, L.Lecarme, D.Fabrégue, P.Onck	Recent Progress in Micromechanics-Based Modeling of Void Coalescence
10:40	697	J.Mergheim	A Multiscale Approach for the Simulation of Ductile Fracture
11:00	732	F.Hild, H. Leclerc, J.-N. Périé, St. Roux	On the Identification of Damage Laws Using Full-Field Measurements

Session MS-15.4 Tuesday Afternoon Chair: Julia Mergheim Room: VA.2

Time	ID	Authors	Title
16:40	852	C.Dascalu	A Two-Scale Model for Damage in Solids: Material Lengths and Size Effects
17:00	695	S.Ghosh, D. Paquet, V. Dakshinamurthy	Multi-Scale Characterization and Modeling of Ductile Failure in Cast Aluminum Alloys
17:20	884	L.Gorbatikh, S.V. Lomov, I. Verpoest	Mechanics of Intra-Hierarchical Interactions: New Concepts to Design Failure Resistant Materials
17:40	887	B.A.Schrefler, D.P. Boso, M.J. Lefik	Thermo-Mechanical Analysis of Non Linear Hierarchical Composites Using the Generalized Self Consistent Like (GSCL) Method
18:00	947	J.Faleskog, M. Stec	Onset of Macroscopic Ductile/Brittle Fracture Due to Debonding/Cracking of Brittle Particles

Mini-Symposium 16:

Nonlinear Effects in Magneto- and Electro-Active Materials

Organized by:

Luis Dorfmann, Ray Ogden

Session	Date		From	To	Room	Chairman
MS-16.1	Thursday	Morning	10:00	11:20	O2.2	Ray Ogden
MS-16.2	Friday	Morning	10:00	11:20	O2.2	Luis Dorfmann

Session MS-16.1

Thursday Morning

Chair: Ray Ogden

Room: O2.2

Time	ID	Authors	Title
10:00	39	D.K.Vu, P. Steinmann	Numerical Simulation of Nonlinear Electroelastostatics
10:20	74	R.Bustamante	A Simple Constitutive Inequality for Isotropic Magneto-Sensitive Elastomers
10:40	156	G.A.Maugin	On Modelling Electromagnetomechanical Interactions in Deformable Solids
11:00	445	R.W.Ogden	Aspects of the Propagation of Waves in a Finitely Deformed Magneto-Sensitive Elastic Solid

Session MS-16.2

Friday Morning

Chair: Luis Dorfmann

Room: O2.2

Time	ID	Authors	Title
10:00	457	M.Ge, A. Lewinstein, G. Botton	On the Macroscopic Response of Electroactive Composites in Finite Elasticity
10:20	661	F.Vogel, P. Steinmann	Modeling and Simulation of Magneto-Sensitive Elastomers
10:40	765	A.Dorfmann, R. Bustamante, R.W. Ogden	Nonlinear Electroelasticity: Finite Deformations, Incremental Equations and Stability
11:00	862	O.Hubert, R. Waberi, S. Lazreg, R. Billardon	Measurement and Two-Scales Modeling of the DE Effect

Mini-Symposium 17:

**Nonlinear Localization and Targeted Energy Transfer in
Dynamical Systems and Engineering**

Organized by:

Oleg Gendelman, Alexander Vakais, L. Bergman

Session	Date		From	To	Room	Chairman
MS-17.1	Monday	Afternoon	15:00	16:20	O2.2	Oleg Gendelman

Session MS-17.1

Monday Afternoon

Chair: Oleg Gendelman

Room: O2.2

Time	ID	Authors	Title
15:00	148	T.Bar, O. Gendelman	Targeted Energy Transfer and Quasiperiodic Response Regimes in Van – Der – Pol Oscillator with Attached Nonlinear Energy Sink
15:30	747	R.Bellet, B. Cochelin, P. Herzog, P.-O. Mattei	An Experimental Set-up for the Study of Targeted Energy Transfer Phenomena in Acoustics
16:00	877	S.Bellizzi, B. Cochelin, C. Pinhede	Experimental Study of a Nonlinear Energy Sink based on a Clamped Clamped thin Blade

Mini-Symposium 18: **Nonlinear Vibrations and Acoustics**

Organized by: Pedro Ribeiro, José Antunes

Session	Date		From	To	Room	Chairman
MS-18.1	Monday	Morning	10:20	11:20	O2.2	Pedro Ribeiro
MS-18.2	Monday	Morning	11:40	13:00	O2.2	Oded Gottlieb
MS-18.3	Monday	Afternoon	16:40	18:00	O2.2	Njuki Mureithi
MS-18.4	Tuesday	Morning	10:00	11:20	O2.2	Bensoam Joël
MS-18.5	Tuesday	Morning	11:40	13:20	O2.2	Jose Antunes

Session MS-18.1 Monday Morning Chair: Pedro Ribeiro Room: O2.2

Time	ID	Authors	Title
10:20	146	V.Schaedlich, N.S. Ferguson	Application of Differential Transformation to Nonlinear Transient Systems
10:40	930	B.Cochelin, C. Vergez, S. Karkar	MANLAB, an Interactive Series-Expansion Approach for Continuation - Focus on Periodic Solutions
11:00	172	J.Bensoam	A Reciprocal Variational Approach to the Two-Body Frictionless Contact Problem in Elastodynamics

Session MS-18.2 Monday Morning Chair: Oded Gottlieb Room: O2.2

Time	ID	Authors	Title
11:40	431	E.R.Ferreira, P. Boulanger	Two-dimensional Wave Motion in Deformed neo-Hookean Elastic Materials
12:00	597	S.Stoykov, P. Ribeiro	Vibrations of Rotating Timoshenko Beams by the p-version Finite Element Method
12:20	670	Y.H.Cho, K. Lee, Y. Park, T. Koh	Geometric Effect of a Railway Contact Wire on Dynamic Interaction Between a Pantograph and an Overhead Line

Session MS-18.3 Monday Afternoon Chair: Njuki Mureithi Room: O2.2

Time	ID	Authors	Title
16:40	773	P.Ribeiro	The Effect of Bauschinger in the Large Amplitude Vibration of Beams
17:00	854	O.Gottlieb, A. Cohen, L. Ioffe	Self-Excited Vibration of a String on an Elastic Foundation Subject to a Nonlinear Feed-Forward Force
17:20	469	A.Lazarus, E.Langre, P.Manneville, P. Vincent, S.Perisanu, A.Ayari, S.Purcell	A Model for the Self-Oscillations of a Nanowire by Field Emission
17:40	935	V.Debut, X. Delaune, J. Antunes	Identification of Nonlinear Interaction Forces Acting on Continuous Systems Using Remote Measurements of the Vibratory Responses

Session MS-18.4 Tuesday Morning Chair: Bensoam Joël Room: O2.2

Time	ID	Authors	Title
10:00	298	N.W.Mureithi, K. Huynh, A. Pham	A simple discrete model of the Forced Karman Wake
10:20	121	Z.Prado, P.B. Gonçalves, M.P. Païdoussis	Dynamic Instability of Imperfect Orthotropic Cylindrical Shells with Internal Flowing Fluid
10:40	915	A.A.Lakis, M.H. Toorani	Non-Linear Axial Flow-Induced Vibrations of Composite Cylindrical Shells
11:00	936	P.Piteau, J. Antunes, L. Borsoi	Experimental Validation of a Nonlinear Bulk-Flow Squeeze-Film Theoretical Model

Session MS-18.5

Tuesday Morning

Chair: Jose Antunes

Room: O2.2

Time	ID	Authors	Title
11:40	286	Y.Wang, S. Ziada	Self-Excited Vibration of Multi-Ring Disk Valves due to Fluid-Structure-Sound Interaction
12:00	761	G.J.Bennett, H. Rice	Nonlinear Vibro-Acoustic Behaviour in a Circular Membrane Oscillator
12:20	134	L.F.C.Vargas, J.M.G.S. Oliveira, F.J.P. Lau	Development of a Wind Turbine Noise Prediction Model
12:40	920	D.Tonon, G. Nakiboglu, S. Belfroid, J.F.H. Willems, A. Hirschberg	Whistling of Corrugated Pipes
13:00	918	B.Ricaud, P. Guillemain, J. Kergomard, F. Silva, C. Vergez	Bifurcations and Periodic Regimes in Woodwind Instruments

Mini-Symposium 19: **Nonsmooth Dynamics**

Organized by: Remco Leine, Frederic Dubois

Session	Date		From	To	Room	Chairman
MS-19.1	Monday	Afternoon	15:00	16:20	MA	Remco Leine
MS-19.2	Monday	Afternoon	16:40	18:00	MA	Frédéric Dubois

Session MS-19.1 Monday Afternoon Chair: Remco Leine **Room: MA**

Time	ID	Authors	Title
15:00	652	M.Möller, R.I. Leine, C. Glocker	An Efficient Approximation of Orthotropic Set-Valued Force Laws of Normal Cone Type
15:20	466	F.Kuss, F. Lebon	Error Estimation and Mesh Adaptation for Signorini-Coulomb Problems Using E-FEM
15:40	143	T.Schindler, R. Zander, K. Grundl, R. Missel, H. Ulbrich	Spatial MFR-FE Sheavewith NURBS-Based Contact Description
16:00	229	F.Dubois, M. Jean	Frictional Contact Numerical Models for Numerous Collections of Rigid or Deformable Bodies

Session MS-19.2 Monday Afternoon Chair: Frédéric Dubois **Room: MA**

Time	ID	Authors	Title
16:40	16	R.I.Leine	Measurements of the Finite-Time Singularity of the Euler Disk
17:00	94	I.-C.Morărescu, B. Brogliato	Passivity-Based Control of Flexible-Joint Complementarity Lagrangian Systems
17:20	757	R.Perales, G. Saussine, F. Radjai	Optimization of the Tamping Process to Reduce Track Settlement
17:40	779	A.A.Kireenkov	About Self-Excited Oscillations in the Mechanical Systems with Combined Kinematics

Mini-Symposium 20:

**Optimization Methodologies and FE Numerical
Simulation Applied to Metal Forming Industrial Problems**
Organized by: R. A. Fontes Valente, A. A. Campos, J.-P. Ponthot

Session	Date		From	To	Room	Chairman
MS-20.1	Monday	Morning	10:20	11:40	O2.3	Robertt Valente
MS-20.2	Monday	Morning	11:50	13:10	O2.3	António Andrade-Campos
MS-20.3	Monday	Afternoon	15:00	16:20	O2.3	Soeren Mueller

Session MS-20.1 Monday Morning Chair: Robertt Valente Room: O2.3

Time	ID	Authors	Title
10:20	322	S.Mueller, S. Gall, W. Reimers	Extrusion of Hybrid Mg/Al Profiles and the Simulation Thereof
10:40	423	J.F.Caseiro, A.A. Campos	An Evolutionary-Inspired Optimization Algorithm Suitable for Solid Mechanics Engineering Inverse Problems
11:00	430	R. DeCarvalho, R.A.F. Valente, A. Andrade-Campos	Optimization Strategies for Non-Linear Material Parameters Identification in Metal Forming Problems
11:20	468	A.Andrade-Campos	Development of an Optimization Framework for Parameter Identification and Shape Optimization Problems in Engineering

Session MS-20.2 Monday Morning Chair: António Andrade-Campos Room: O2.3

Time	ID	Authors	Title
11:50	475	F.Tondini, P. Bosetti, S. Bruschi	Heat Transfer Coefficient Identification in Hot Stamping Processes
12:10	666	N.Grzegorz, N. Iwona	Shape Optimization of Airfoil's Cooling Passages
12:30	681	S.Germain, M. Scherer, P. Steinmann	On Inverse Form Finding for Hyperelasticity in Logarithmic Strain Space
12:50	710	M.P.Henriques, R.J.A. Sousa, R.A. F. Valente	Numerical Simulation of Wrinkling Deformation in Sheet Metal Forming

Session MS-20.3 Monday Afternoon Chair: Soeren Mueller Room: O2.3

Time	ID	Authors	Title
15:00	907	T.M.Rocha, J.F. Meireles, J. Ambrósio, A.C. Pinho	Updating of Coarse Finite Elements Structural Models for Dynamic Analysis Identified by Complex Model Results
15:20	971	W.Zhuang, S. Wang, D. Balint, J. Lin	Micro-Mechanics Modelling for Forming Microtubular Components
15:40	972	J.Lin, D. Balint	Development and Determination of Unified Viscoplastic Constitutive Equations for Predicting Microstructure Evolution in Hot/Warm Forming
16:00	973	J.I.V.Sena, R.J.A. Sousa, F.J.P. Simões, R.A.F. Valente, J.J. Grácio	Finite Element Analysis of Incrementally Formed Parts

Mini-Symposium 23: **Probabilistic Models for Measurements and Analyses in Mechanics of Materials**

Organized by: François Hild, K. Sobczyk

Session	Date		From	To	Room	Chairman
MS-23.1	Wednesday	Afternoon	16:40	18:00	O2.3	Kazimierz Sobczyk
MS-23.2	Thursday	Morning	11:40	12:40	O2.3	Francois Hild

Session MS-23.1 Wednesday Afternoon Chair: Kazimierz Sobczyk **Room: O2.3**

Time	ID	Authors	Title
16:40	13	T.T.Do, C. Soize, J.-V. Heck	Constitutive Equation for the Screw-Attachment in Plasterboards. Probabilistic Model and its Experimental Identification
17:00	370	A.Cecchi, K. Sab	In-Plane and Out-of-Plane Homogenization for Random 2D Lattices. Application to Brickwork Panels
17:20	434	.Rupil, N. Malésys, L. Vincent, F. Hild	Contribution of Mechanical Fatigue Experiments to the Improvement of a Probabilistic Model for the Formation of Crack Networks in Thermal Fatigue
17:40	437	K.Sobczyk	Random Material Grain Microstructure and it's Effects on Cracking

Session MS-23.2 Thursday Morning Chair: Francois Hild **Room: O2.3**

Time	ID	Authors	Title
11:40	534	V.Maurel, M. Harvey, L. Rémy	Full Field Analysis of Alumina Spallation Improved by Statistical Model
12:00	721	C.G.Nogueira, W.S. Venturini, A. Chateaufneuf	Reliability Analysis of Reinforced Concrete Beams Taking into Account Stirrup and Dowel Action Contributions
12:20	729	D.Schwarzer, C. Proppe	Stochastic Description of the Mechanical Properties of Metal Foam Obtained by Mesoscopic Modeling

Mini-Symposium 24: **Kinetics, Control and Vibrorheology – KINCONVIB 2009**

Organized by: Katica Hedrih

Session	Date		From	To	Room	Chairman
MS-24.1	Wednesday	Afternoon	15:00	16:10	O2.3	Katica R. (Stevanovic) Hedrih
MS-24.2	Thursday	Morning	10:00	11:10	O2.3	Tamara Nestorovic

Session MS-24.1 Wednesday Afternoon Chair: Katica (Stevanovic) Hedrih **Room: O2.3**

Time	ID	Authors	Title
15:00	327	I.I.Blekhman	On Vibrational Nano-Mechanics and Nano-Vibrorheology
15:30	340	T.Nestorović, U. Gabbert	Control Methods in Vibroacoustics – Active Noise and Vibration Suppression
15:50	294	K.R.S.Stevanović, J.D. Simonovic	Energy Transfer Throught the Double Circular Plate Nonconservative System Dynamics

Session MS-24.2 Thursday Morning Chair: Tamara Nestorovic **Room: O2.3**

Time	ID	Authors	Title
10:00	845	J.C.Sartorelli, W. Lacarbonara	Bifurcations of a Parametrically Excited Double Pendulum
10:30	315	K.R.S.Stevanović, A.N. Hedrih	Transfer of Energy of Oscillations through the Double DNA Chain Helix
10:50	348	K.R.S.Stevanović	Free and Forced Vibrations of the Heavy Material Particle along Line with Friction: Direct and Inverse Task of the Theory of Vibrorheology

Mini-Symposium 25: **Multiscale Modeling of Ductile and Brittle Damage in Solids: Recent Progresses and New Trends**

Organized by: Ajit Mal, Fabrizio Ricci

Session	Date		From	To	Room	Chairman
MS-25.1	Monday	Afternoon	15:00	16:20	VA.6	Fabrizio Ricci
MS-25.2	Tuesday	Morning	10:00	11:20	VA.6	Ajit Mal
MS-25.3	Tuesday	Morning	11:40	13:00	VA.6	Anders Bostrom
MS-25.4	Tuesday	Afternoon	16:40	18:20	VA.6	Dimitrios Sotiropoulos

Session MS-25.1 Monday Afternoon Chair: Fabrizio Ricci Room: VA.6

Time	ID	Authors	Title
15:00	77	J.Engelbrecht, A. Ravasoo	Nondestructive Characterization of Functionally Graded Materials
15:20	180	S.Banerjee, A. Mal	Theoretical Modeling of Wave Propagation in Honeycomb Composites
15:40	202	K.Mauritsson	Dynamic Equations for a Fully Anisotropic, Piezoelectric Plate
16:00	217	A.Boström, M. Golub, O. Kvasha	Propagation of SH Waves in a Layered Plate with Interface Damage

Session MS-25.2 Tuesday Morning Chair: Ajit Mal Room: VA.6

Time	ID	Authors	Title
10:00	270	Z.Liu, Z. Wang, Z. Li	New Application of Non-Destructive Control—Smti on Concrete Structure
10:20	297	D.A.Sotiropoulos	Brewster Angles, Elastic Interfacial Waves, and the Effect of Pre-Stress
10:40	345	K.Mauritsson, A. Boström, P.D. Folkow	Dynamic Equations for an Anisotropic Elastic Plate using Power Series Expansions
11:00	417	H.Alonso, P. Ribeiro, P. Rocha	On-Line Damage Detection using a Dynamical Neural Network

Session MS-25.3 Tuesday Morning Chair: Anders Bostrom Room: VA.6

Time	ID	Authors	Title
11:40	455	A.M.Samsonov, G.V. Dreiden, K.Khusnutdinova, I.V. Semenova	Bulk Nonlinear Waves in Bars: Splitting Leads to Fission
12:00	474	M.Mičunović, A. Grillo, I. Muha, G. Wittum	Two Dimensional Plastic Waves in Quasi Rate Independent Viscoplastic Materials
12:20	522	C.Meola, G.M. Carlomagno	Health Monitoring of Composites with Infrared Thermography
12:40	536	K.-M.Lee	A Simple Hybrid Method in Inverse Scattering Problem

Session MS-25.4 Tuesday Afternoon Chair: Dimitrios Sotiropoulos Room: VA.6

Time	ID	Authors	Title
16:40	892	A.Bhaskar	Group Velocity as an Eigen-Sensitivity Problem
17:00	895	F.Ricci, E. Monaco, S. Banerjee, A. K. Mal	Vibration and Ultrasonic Methodologies for Damage Detection
17:20	898	F.Ricci, E. Monaco, S. Tancredi, D. Lucariello, L. Lecce, A.K. Mal	Scanning Laser Vibrometry and Finite Element Analysis of Lamb Waves for Damage Detection
17:40	900	C.Toscano, F. Lenzi	Impact Behavior of Damped Composite
18:00	957	I.Bovio, L. Lecce	Structural Health Monitoring by Means of Acoustics Sources and Laser Vibrometer System

Mini-Symposium 26: **Stability and Nonlinear Behavior of Steel Structures**

Organized by: Dinar Camotim, Miroslav Škaloud

Session	Date		From	To	Room	Chairman
MS-26.1	Monday	Morning	10:20	11:20	VA.1	Dinar Camotim
MS-26.2	Monday	Morning	11:40	13:00	VA.1	Dinar Camotim
MS-26.3	Monday	Afternoon	15:00	16:20	VA.1	Mark Bradford
MS-26.4	Monday	Afternoon	16:40	18:00	VA.1	Eduardo Batista
MS-26.5	Tuesday	Morning	10:00	11:20	VA.1	Miroslav Škaloud
MS-26.6	Tuesday	Morning	11:40	13:00	VA.1	Miroslav Škaloud
MS-26.7	Tuesday	Afternoon	15:00	16:20	VA.1	Pedro C. G. da S. Vellasco
MS-26.8	Tuesday	Afternoon	16:40	18:40	VA.1	Robert Beale
MS-26.9	Wednesday	Morning	10:00	11:40	VA.1	Paulo Vila Real

Session MS-26.1 Monday Morning Chair: Dinar Camotim Room: VA.1

Time	ID	Authors	Title
10:20	627	V. M. Zeinoddini, B. W. Schafer	Imperfection Models for Cold-Formed Steel From Rules of Thumb to Random Fields
10:50	656	M. Eisenberger, I. Shufrin	Buckling of Plates by the Multi Term Extended Kantorovich Method

Session MS-26.2 Monday Morning Chair: Dinar Camotim Room: VA.1

Time	ID	Authors	Title
11:40	329	N. Silvestre, S. Adány, D. Camotim, B. W. Schafer	Comparing the GBT and cFSM Matrix Procedures: from Different Roots to Similar Solutions
12:00	922	M. Škaloud, M. Zörnerová	The Post-Buckled Behaviour in Thin-Walled Construction and Its Partial "Erosion" Under Repeated Loading

Session MS-26.3 Monday Afternoon Chair: Mark Bradford Room: VA.1

Time	ID	Authors	Title
15:00	604	E. M. Batista	Stability of Steel Cold-Formed Columns and Beams: Integrating Effective Width and Direct Strength Methods for Design
15:20	680	J. Jönsson, M. J. Andreassen	Distortional Modes of Thin-Walled Beams
15:40	794	A. Andrade, P. Providência, D. Camotim	A Finite-Element Tool for the Lateral-Torsional Buckling Analysis of Tapered I-Beams
16:00	762	A. Taras, R. Greiner	Consistent Analytical Description of Buckling Curves for Lateral-Torsional Buckling of Steel Members

Session MS-26.4 Monday Afternoon Chair: Eduardo Batista Room: VA.1

Time	ID	Authors	Title
16:40	538	M. A. Bradford, Y.-L. Pi	Elastic Postbuckling of Arches with Rotational End Restraints under Radial Loading
17:00	763	I. M. Cristutiu, Zs. Nagy	Imperfection Sensitivity Analysis of Pitched Roof Portal Frames
17:20	744	M. Ritto-Corrêa, R. M. Gonçalves, D. R. Z. Camotim	On the Application of the Geometrically Exact Beam Theory to Tapered Members
17:40	665	J. Jönsson	Diaphragm Action in Thin-Gauge Steel SKANDEK Roof Elements - Modeling and Experimental Investigation

Session MS-26.5 Tuesday Morning Chair: Miroslav Škaloud Room: VA.1

Time	ID	Authors	Title
10:00	954	K.J.R.Rasmussen, B. Gilbert	Advanced Analysis and Design of Steel Storage Racks
10:30	611	L.Dunai	Stability Behavior of Non-Conventional Cold-Formed Steel Structures

Session MS-26.6 Tuesday Morning Chair: Miroslav Škaloud Room: VA.1

Time	ID	Authors	Title
11:40	433	L.Gardner, F. Wang	Influence of Strain Hardening on the Behaviour and Design of Steel Structures
12:00	484	D.Camotim, P.B. Dinis	Mode Interaction in Cold-Formed Steel Lipped Channel Columns

Session MS-26.7 Tuesday Afternoon Chair: Pedro C. G. da S. Vellasco Room: VA.1

Time	ID	Authors	Title
15:00	564	C.Basaglia, D. Camotim, N. Silvestre	Buckling Behaviour Of Laterally Restrained Pitched-Roof Steel Frames
15:20	583	R.G.Beale, M.H.R. Godley	Numerical Modelling of Full-Scale Tube and Fitting Scaffold Tests
15:40	101	P. L.Grogne, P. Casari, D. Choqueuse	Elastoplastic Collapse of Cylindrical Tubes under External Pressure
16:00	734	R.Jiao, S. Kyriakides	Wrinkling and Collapse of Tubes Due to Axial Cycling

Session MS-26.8 Tuesday Afternoon Chair: Robert Beale Room: VA.1

Time	ID	Authors	Title
16:40	883	N.Lopes, P.V. Real, L.S. Silva	Stainless Steel Beam-Columns Interaction Curves With and Without Lateral Torsional Buckling
17:00	644	M.A.Serna, E. Bayo, J.R. Ibañez	Imperfections for Global Analysis of Frames: EC3 Drawbacks and Energy Based Procedure
17:20	916	A.M.S.Freitas, F.T. Souza, M.S.R. Freitas	Non-linear Analysis of Drive-in Base Plates
17:40	482	P.B.Dinis, N. Silvestre, D. Camotim	On the Local and Global Post-Buckling Behaviour and Strength of Thin-Walled Angle Columns and Beams
18:00	519	R.R.Araujo, L.Silva, S.A.Andrade, P. Vellasco, J. Silva, L. Lima	Structural Evaluation of Steel Columns with Reinforced Bar Stays
18:20	614	H.Degée, C. Dufoing, D. Jehin	Geometrically Non Linear Dynamic Behavior of Steel Storage Racks Subjected to Earthquake Loading

Session MS-26.9 Wednesday Morning Chair: Paulo Vila Real Room: VA.1

Time	ID	Authors	Title
10:00	392	M.Škaloud, J. Melcher, J. Kala, Z. Kala	The Possibility of Making Web Tolerances Less Stringent as a Prerequisite for Achieving Economic-Fabrication Steel Girders
10:20	753	D.Lane, G. Heijden	Stability Index of Elastic Rods with Discontinuous Bending Stiffness: Applications to Carbon Nanotubes
10:40	582	G.Queiroz, R. J. Pimenta, L. A. C. Mata	Partial Resistance Composite Connections In Unbraced Frames
11:00	513	G.Queiroz, S.S.R. Pereira, L.A.C. Mata, M. Carmo	Influence of Friction at the Slab/Steel-Profile Interface and of the Flexibility of Shear Connectors in Steel-Concrete Composite Beams
11:20	622	F. N. Leitão, J. Silva, P. Vellasco, S. Andrade, L. Lima	Fatigue Analysis of Composite Highway Bridges

Mini-Symposium 27: **Stability of Solids Under Finite Deformation**

Organized by: Michel Destrade, G. Saccomandi

Session	Date		From	To	Room	Chairman
MS-27.1	Wednesday	Morning	10:00	11:40	VA.3	Davide Bigoni
MS-27.2	Wednesday	Afternoon	16:40	18:20	VA.3	Oscar Lopez-Pamies

Session MS-27.1 Wednesday Morning Chair: Davide Bigoni **Room: VA.3**

Time	ID	Authors	Title
10:00	32	C.D.Coman, M. Destrade	Euler-Type Buckling Instabilities in the Pure Bending of a Thick Rubber Block
10:20	86	O.Lopez-Pamies	Onset of Cavitation in Hyperelastic Solids under Arbitrary Loading Conditions
10:40	106	H-H.Dai, F.F. Wang	Asymptotic Bifurcation Solutions for Compressions of a Clamped 2D Nonlinearly Elastic Rectangle: Transition Region and Barrelling to a Corner-
11:00	394	S.Neukirch, B. Audoly, N. Clauvelin	Twisting an Open Knotted Elastic Rod
11:20	407	Z.Liu, R. Quintanilla	Analyticity of Solutions in Type III Thermoelastic Plates

Session MS-27.2 Wednesday Afternoon Chair: Oscar Lopez-Pamies **Room: VA.3**

Time	ID	Authors	Title
16:40	634	A.Gupta	On the Role of Dislocation Distribution in the Propagation of Elastic-Plastic Waves
17:00	746	S.Roccabianca, D. Bigoni, M. Gei	Bifurcations of Non-Linear Elastic Multilayers under Finite Flexure
17:20	940	J.Dervaux, M.B. Amar, Y. Couder	Shape Instability In Growing Tumors
17:40	945	S.P.Pearce, Y.B. Fu	Characterisation and Stability of Localised Bulging/Necking in Inflated Membrane Tubes
18:00	974	K.Bertoldi, T. Mullin, M.C. Boyce	The use of Instabilities to Create Materials with Tunable Properties

Mini-Symposium 28: **Progress In Thermomechanics of Materials**

Organized by: André Chrysochoos, Daniel Rittel

Session	Date		From	To	Room	Chairman
MS-28.1	Wednesday	Afternoon	15:00	16:20	VA.3	André Chrysochoos

Session MS-28.1 Wednesday Afternoon Chair: André Chrysochoos **Room: VA.3**

Time	ID	Authors	Title
15:00	350	R.Caborgan, J.-M. Muracciole, B. Wattrisse, A. Chrysochoos	Energy Analysis for the Cyclic Behavior of Rubber-Like Materials using Thermo-Mechanical Full-Field Measurements
15:20	352	E.Charkaluk, L. Bodelot, R. Seghir	Shakedown, Dissipation and Fatigue of Metals
15:40	353	P.Schlosser, H. Louche, D. Favier, L. Orgéas	Estimation of Strain and Heat Source Fields during Localised Superelastic Tensile Tests on NiTi Sheet Samples

Mini-Symposium 29: **Vehicle Dynamics**

Organized by: Werner Schiehlen, Georg Rill

Session	Date		From	To	Room	Chairman
MS-29.1	Tuesday	Afternoon	15:00	16:30	VA.4	Werner Schiehlen
MS-29.2	Tuesday	Afternoon	16:50	18:30	VA.4	Georg Rill
MS-29.3	Wednesday	Afternoon	15:00	16:20	VA.4	Georg Rill

Session MS-29.1 Tuesday Afternoon Chair: Werner Schiehlen Room: VA.4

Time	ID	Authors	Title
15:00	224	B.Esterl, H. Gehrke, T. Butz, C. Chucholowski	Real-Time Simulation of Vehicle-Trailer Structures with Complex Coupling Devices
15:30	395	J.Edelmann, M. Plöchl, P. Lugner	MBS-Model and Dynamics of a Tilting Vehicle
15:50	276	G.Rill, W. Hirschberg	Dynamic Tire Forces with Smooth Transition to Stand-Still
16:10	828	F.Braghin, F. Cheli, S. Melzi, E. Sabbioni, F. Mancosu, M. Brusarosco	Development of a Cyber Tire to Enhance Performances of Active Control Systems

Session MS-29.2 Tuesday Afternoon Chair: Georg Rill Room: VA.4

Time	ID	Authors	Title
16:50	285	W.Schiehlen, P. Eberhard, C. Henninger, T. Kurz	Symbolical Equations of Motion for Vehicle System Analysis and Synthesis
17:10	906	M.D.Dourado, J.F. Meireles, J. Ambrósio, A.C. Pinho	Development of Reduced Finite Elements Models of Structures for Application to Road Vehicles
17:30	207	R.Pastorino, M.A. Naya, J.A. Pérez, J. Cuadrado	X-by-Wire Vehicle Prototype: a Steer-by-Wire System With Geared PM Coreless Motors
17:50	976	J.Ezzine, F. Tedesco	Mixed Sensitivity H1 control Approach for Regulation of Active Suspension on Half-Car Model with Seat-Passengers
18:10	449	K.Flídrová, D. Lenoir, N. Vasseur, L. Jézéquel	Reduction of Finite Element Models for Explicit Car Crash Simulations

Session MS-29.3 Wednesday Afternoon Chair: Georg Rill Room: VA.4

Time	ID	Authors	Title
15:00	949	J.Pombo, H.Desprets, R.Verardi, J. Ambrósio, MPereira, CAriaudo, NKuka	Wheel Wear Evolution and its Influence on the Dynamic Behaviour Of Railway Vehicles
15:20	248	S.Herk, K. Dreßler, R. Pinnau	Model Reduction of Nonlinear Problems in Structural Mechanics
15:40	827	F.Cheli, S. Melzi	Rheological Model of a Side Buffer for Freight Trains
16:00	905	J.Ambrósio, F. Rauter, J. Pombo, M. Pereira	Flexible Pantograph Model for the Contact Dynamics of the Pantograph-Catenary Interaction Problem

General Session: **Poster Session**

Session	Date		From	To	Room
Poster	Wednesday	Morning	11:40	13:00	Hall

Poster Session

Wednesday Morning

Hall

Time	ID	Authors	Title
11:40	11	T.Y. Chen, T.S. Chang	Design of a Micro-Machining System Using Cutting Edge Optimization Methods
11:40	80	C.A.J. Miranda, E. Maneschy, P. Rodrigues	Structural Integrity Assessment of Angra 1 Steam Generator Tubing Using Deterministic and Statistic Methods – Past and Present
11:40	96	V.A. Naletova, K. Zimmermann, I. Zeidis, V.A. Turkov, S.Kalmykov	Dynamics of a Prolate Magnetizable Elastic Body in a Cylindrical Channel
11:40	225	K. Grysa, A. Maciag, M. Sokala	Wave Functions in Solving Direct and Inverse Problems of Elastokinetics
11:40	275	R.J. Guimarães, J.A. Pacheco, J.F. Meireles, J.F. Fonseca	A Bending Cell for Small Batches
11:40	281	B.J. Dias, J.F. Meireles, L. Matias, R. Alve	Cylindrical Parts Circularity Affection by the Grinding Machine Dynamic Behaviour
11:40	372	N. Trišović, T. Maneski, A. Sedmak, D. Šumarac	Modification of the Dynamics Characteristics in the Structural Dynamic Reanalysis
11:40	374	D. Balkan, Z. Mecitoğlu	Dynamic Response of Sandwich Plates with Viscoelastic Core under Blast Load
11:40	402	A. Morenko, M. Smithy	Remarks on the Interaction of a Plane Acoustic Wave with Single and Triple Layered Spherical Shells
11:40	442	A. Zerarka, B. Nine	The Particle Swarm Optimization Approach Applied to the Von-Kármán Equation
11:40	444	H. Sanzi, G. Elvira, M. Kloster, E. Asta, M. Zalazar	Thermal Cycle Evaluation of a GMAW Welding on Pipeline Steel Plates Computational and Analytical Solutions Compared with Experimental ...
11:40	489	K.Komori	Proposal and use of a Void Model for the Evaluation of Ductile Fracture in Sheet Metal Forming
11:40	509	Y. Natanzon, Z. Łodziana	Quantum Mechanical Calculations of Elastic Properties of Doped Tetragonal Ytria-Stabilized Zirconium Dioxide
11:40	555	N. Morita, D. Iwashita	Analysis of Shear-Type Borehole Shifts Induced during Lost Circulations using the Dual Boundary Method
11:40	603	V.I. Monine, S.M. Iglesias, J.T. Assis	Computer Simulation Applied to Analysis of Superficial Stress Gradients
11:40	635	L.D. Cotoros, M.I. Baritz, A.E. Stanciu	Experimental Studies of Composites Friction Properties Designed for Biomechanical Use
11:40	664	S.Kruch	Multi-Scale Analysis of Structures Reinforced with Metal Matrix Composites
11:40	677	E.K. Bezoyan	About one Theory of Anisotropic Nonhomogeneous Viscoelastic Bodies
11:40	700	S. Santos, A.M.R.A. Vieira, M.P.L. Parente, R.M. Natal Jorge	Experimental Study of Grinding Titanium Alloy Ti-6AL-4V
11:40	726	H. Herrmann	Mesoscopic Simulation of Growth of Microcracks
11:40	758	S. Tavares, V. Richter-Trummer, P. Moreira, P. de Castro	Fatigue behavior of lightweight integral panels

Poster Session

Wednesday Morning

Hall

Time	ID	Authors	Title
11:40	798	H. Kalhori, A. Shooshtari	Numerical and Experimental Investigation for Dimension Effect on Mechanical Behavior of a Metallic Curved Micro-Cantilever Beam
11:40	801	E. Bernardini, N. Cavalagli, F. Cluni, V. Gusella	Homogenization in Generalized Plane State for the Masonry Strength Domain Evaluation
11:40	804	Cs. Asszonyi, T. Fülöp, P. Ván	Objectivity and continuum mechanics
11:40	806	N. Cavalagli, F. Cluni, V. Gusella	Interface Analysis of Periodic and non-Periodic Masonry
11:40	808	M.I.Baritz, L.D. Cotoros, L. Cristea	Biomechanical Analysis of Human Locomotion During Changing the Gait Level
11:40	833	A.R. Tóth, K. Bagi	DEM Analysis of a Structural Solution for Lunar Base
11:40	870	M.N. Osipov, M.A. Popov	Selecting the ADC Bitrate for the Measurements of Small Displacements by the Optoelectronic Interferometer
11:40	944	M. Posch, P. Řeřicha	Fatigue Live of the Quasi-Brittle Material of the Mortar with Opening Cracks During Loading
11:40	962	T.S.Igic, D.T. Turnic, N.Z. Markovic	Design of a System for Control, Monitoring, Regulation and Data Acquisition (CMRA) on Civil Engineering Objects, Constructions and ...
11:40	965	M.H. Pol, A. Bidi, S. Azizy, A.V. Hoseini	Investigation of the Dependency of the Stress Concentration Factor on Plate Length in Notched Plates under Bending

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Altenbach, H.	MS-06	123	Ario, I.	GS-CM	97	Bauer, S.	GS-CoM	175
Altus, E.	GS-MM	393	Arslan, G.	MS-10	299	Bay, N.	MS-04	67
Álvarez-Caldas, C.	GS-CoM	203	Arteiro, A.J.C.	MS-08	233	Baydal, J. M.	MS-02	7
Alves, J.L.	MS-04	65	Arthington, M.R.	MS-08	221	Bayo, E.	MS-26	675
Alves, J.L.	MS-04	73	Asghari, M.	GS-SM	445	Beale, R.G.	MS-26	663
Alves, J.L.	MS-06	147	Ask, A.	GS-CP	151	Béchade, J.-L.	MS-09	275
Alves, R.	Poster	267	Assis, J. T.	MS-08	231	Begoña,	MS-12	341
Alves, J.L.	GS-SM	475	Asszonyi, Cs.	Poster	119	Behringer, R.P.	MS-07	197
Amar, M.B.	MS-27	719	Asta, E.	Poster	157	Behringer, R. P.	MS-07	203
Ambrósio, J.	MS-02	31	Attarnejad, R.	GS-DY	285	Belfroid, S.	MS-18	519
Ambrósio, J.	MS-14	393	Atzrodt, H.	MS-13	365	Belhadjsalah, H.	MS-04	69
Ambrósio, J.	MS-14	417	Audoly, B.	MS-27	711	BelHadjsalah, H.	MS-04	73
Ambrósio, J.	MS-14	419	Avsec, J.	MS-09	243	Belinha, J.	GS-CoM	205
Ambrósio, J.	MS-20	563	Ayari, A.	MS-18	501	Bellet, R.	MS-17	481
Ambrósio, J.	MS-29	755	Ayas, C.	GS-MM	401	Bellizzi, S.	MS-17	483
Ambrósio, J.	MS-29	757	Azadbakht, M.	GS-DY	271	Belser, U.C.	MS-12	323
Ambrósio, J.	MS-29	759	Azizy, S.	Poster	251	Benachour, M.	GS-EM	333
Amor, H.	MS-06	151	Bader, T.K.	MS-10	285	Benachour, N.	GS-EM	333
Amvrosieva, A.	MS-06	119	Bagi, K.	Poster	247	Benallal, A.	GS-MM	371
Andersson, L.E.	MS-05	91	Baillet, L.	GS-CM	69	Benedictus, R.	GS-CM	79

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Bennani, A.	GS-SM	439	Bouvet, C.	MS-10	291	Carlomagno, G.M.	MS-25	625
Bennani, A.	GS-SM	465	Bovio, I.	MS-25	637	Carmo, M.	MS-26	653
Bennett, G.J.	MS-18	509	Boyce, M.C.	MS-27	723	Carpentier, C.	MS-02	9
Bensoam, J.	MS-18	493	Bradford, M.A.	MS-26	657	Carvalho, A.	MS-02	11
Berezovski, M.	GS-CM	55	Braghin, F.	MS-29	753	Carvalho, G.	MS-08	231
Berge-Gras, R.	GS-EM	321	Breder, R.L.B.	MS-08	231	Carvalho, M.	MS-14	393
Bergheau, J.M.	GS-CP	143	Breidt, M.	GS-CoM	223	Carvalho, R. De	MS-20	551
Bergomi, M.	MS-12	323	Brekelmans, M.	GS-MM	411	Casanova, E.	GS-SM	471
Bernard, D.	GS-MM	397	Brekelmans, W.	MS-15	435	Casari, P.	MS-26	641
Bernardini, E.	Poster	117	Brenner, R.	MS-09	275	Caseiro, J.F.	MS-20	549
Berrehili, A.	GS-MM	425	Brinkhues, S.	MS-12	321	Castagnet, S.	GS-MM	425
Berthier, Y.	GS-CM	69	Brnic, J.	GS-EM	317	Castellanos, A.	GS-EM	337
Bertoldi, K.	MS-27	723	Brogliato, B.	MS-19	531	Castro, P. de	GS-EM	331
Bésuelle, P.	MS-15	429	Brown, A.E.X.	MS-10	289	Castro, P. de	MS-08	223
Bezensek, B.	GS-MM	387	Brownell, W.E.	MS-10	293	Castro, P. de	Poster	417
Bezoyan, E.K.	Poster	105	Brühwiler, P.A.	MS-03	59	Castro, A.	GS-CoM	227
Bhaskar, A.	MS-25	629	Brüning, M.	MS-06	107	Cavalagli, N.	Poster	117
Bhattacharya, K.	MS-12	317	Brusarosco, M.	MS-29	753	Cavalagli, N.	Poster	121
Bideau, N.	GS-CP	137	Bruschi, S.	MS-20	555	Cecchi, A.	MS-23	575
Bidi, A.	Poster	251	Buchukuri, T.	GS-CM	43	Ceglia, G.	GS-MM	397
Bielen, J.	MS-09	269	Buco, B.D.	MS-06	147	Chagnon, G.	MS-04	71
Bigoni, D.	MS-27	717	Bue, A.D.	MS-02	13	Chai, H.	MS-06	155
Billardon, R.	GS-MM	421	Büter, A.	GS-CP	163	Chakraborty, B.	MS-07	175
Billardon, R.	MS-16	475	Bukhanko, A.A.	GS-CM	57	Chakraborty, B.	MS-07	193
Birsan, M.	GS-SM	487	Bulatovic, R.M.	GS-DY	261	Chang, T.S.	Poster	171
Blachut, J.	GS-SM	451	Buliga, M.	MS-05	77	Charkaluk, E.	MS-28	729
Blachut, J.	MS-13	377	Bunk, O.	MS-03	59	Chateaufneuf, A.	MS-23	583
Blekhman, I.I.	MS-24	593	Burgert, I.	MS-10	307	Chaunier, L.	MS-03	45
Bodelot, L.	MS-28	729	Burov, A.A.	MS-14	397	Chaves, F.J.P.	MS-08	223
Böhlke, T.	MS-09	247	Bushby, A.J.	MS-12	337	Chekchaki, M.	GS-SM	443
Böl, M.	MS-12	333	Bustamante, R.	MS-16	463	Chekurin, V.F.	GS-CM	73
Bolotnik, N.N.	MS-14	403	Bustamante, R.	MS-16	473	Cheli, F.	MS-29	751
Bolshakov, V.I.	GS-MM	367	Butz, T.	MS-29	739	Cheli, F.	MS-29	753
Bona, F.D.	GS-CoM	179	Caborgan, R.	MS-28	727	Chen, A-L.	GS-CM	41
Bonnet, G.	MS-03	57	Cailletaud, G.	MS-09	281	Chen, A-L.	GS-MM	349
Borges, L.A.	GS-SM	483	Camanho, P.P.	MS-03	47	Chen, X.	GS-MM	359
Borkovec, J.	MS-06	127	Camanho, P.P.	MS-03	55	Chen, W.	MS-15	441
Bornert, M.	MS-15	429	Camotim, D.	MS-26	643	Chen, T.Y.	Poster	171
Borsoi, L.	MS-18	525	Camotim, D.	MS-26	649	Chiba, N.	GS-MM	359
Børviky, T.	GS-MM	371	Camotim, D.	MS-26	659	Chkadua, O.	GS-CM	43
Bosetti, P.	MS-20	555	Camotim, D.R.Z.	MS-26	685	Cho, Y.H.	MS-18	507
Boso, D.P.	MS-15	455	Camotim, D.	MS-26	693	Choqueuse, D.	MS-26	641
Boström, A.	MS-25	611	Camotim, D.	MS-26	651	Chouman, M.	GS-MM	363
Boström, A.	MS-25	617	Campoli, G.	GS-CM	79	Christoforou, A.P.	MS-13	359
Botsis, J.	GS-CoM	239	Campos, A.A.	MS-20	549	Chrysochoos, A.	MS-28	727
Botsis, J.	MS-12	323	Canadija, M.	GS-EM	317	Chucholowski, C.	MS-29	739
Botton, G.	MS-16	469	Canto, R.B.	GS-MM	421	Ciałkowski, M.	GS-CoM	201
Boulanger, P.	MS-18	499	Cao, X.	GS-CP	163	Claudelvin, N.	MS-27	711

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Clément, E.	MS-07	213	Danishevs'kyi, V.	GS-MM	367	Dourado, M.D.	MS-29	757
Cluni, F.	Poster	117	Daros, C.H.	GS-CoM	181	Doz, G.	MS-06	169
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Coates, P.D.	GS-MM	403	Dartois, S.	MS-15	425	Dreiden, G.V.	MS-25	621
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Cochelin, B.	MS-17	483	Dattoma, V.	GS-EM	329	Drögemüller, T.	MS-13	365
Cochelin, B.	MS-18	521	Davenne, L.	GS-CoM	243	Duarte, I.	GS-EM	319
Cocks, A.C.F.	GS-MM	407	Debut, V.	MS-18	523	Duarte, I.	MS-10	297
Cocou, M.	GS-MM	389	Degée, H.	MS-26	669	Dubé, M.	GS-MM	383
Codes, R.N.	GS-MM	371	Deichmueller, M.	GS-DY	281	Dubois, F.	MS-19	535
Coenen, E.W.C.	MS-15	435	Delannay, L.	MS-09	257	Dufoing, C.	MS-26	669
Cohen, T.	MS-06	135	Delaune, X.	MS-18	523	Dumitriu, D.	GS-EM	313
Cohen, A.	MS-18	513	Deleuze, H.	GS-MM	397	Dumont, S.	GS-CM	115
Coman, C.D.	MS-27	705	Denkena, B.	GS-DY	281	Dunaev, I.M.	MS-06	117
Comi, C.	GS-MM	405	Dervaux, J.	MS-27	719	Dunaev, V.I.	MS-06	117
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Contrafatto, L.	MS-06	139	Desrues, J.	MS-15	429	Eberhard, P.	MS-14	399
Corigliano, A.	GS-MM	405	Destrade, M.	MS-27	705	Eberhard, P.	MS-29	745
Cortés, C.	GS-CP	161	Detrembleur, S.	GS-CP	149	Eberhardsteiner, J.	MS-10	285
Costa, A.P.	MS-05	79	Detrembleur, C.	MS-02	21	Edelmann, J.	MS-29	747
Costa, A.P.	MS-05	99	Dewals, B.J.	GS-CP	149	Egner, H.	GS-MM	365
Cotoros, L.D.	Poster	325	Di Carlo, A.	MS-09	279	Egner, W.	GS-MM	365
Cotoros, L.D.	Poster	23	Dias, J.M.P.	MS-02	29	Ehret, A.E.	MS-12	325
Couder, Y.	MS-27	719	Dias, J.	MS-14	415	Ehret, A.E.	MS-12	333
Courtin, S.	GS-EM	343	Dias, B.J.	Poster	267	Einsfeld, R.	MS-08	231
Cristea, L.	Poster	23	Diebels, S.	MS-10	287	Eisenberger, M.	MS-26	677
Cristutiu, I.M.	MS-26	691	Diebels, S.	MS-13	355	Ejday, M.	GS-CoM	233
Crivellari, M.R.	MS-09	279	Dietrich, L.	MS-03	41	Elliott, B.C.F.	MS-08	221
Cuadrado, J.	MS-29	737	Dijksman, J.	MS-07	177	Elvira, G.	Poster	157
Cuadrado, J.	MS-02	33	Dill-Langer, G.	MS-06	157	Engelbrecht, J.	MS-25	605
Cugnoni, J.	GS-CoM	239	Dimitrovová, Z.	GS-DY	307	Enz, S.	GS-CP	147
Cugnoni, J.	MS-12	323	Dini, D.	GS-CM	59	Ertürk, I.	MS-09	269
Cuomo, M.	GS-CM	89	Dinis, L.M.J.S.	GS-CoM	205	Esterl, B.	MS-29	739
Cuomo, M.	MS-06	139	Dinis, P.B.	MS-26	649	Evrard, P.	MS-06	141
Curtit, F.	MS-09	281	Dinis, P.B.	MS-26	651	Ezzine, J.	MS-29	761
Custódio, P.	MS-08	235	Dinkler, D.	MS-06	113	Fabrègue, D.	MS-15	451
D. Vollath,	MS-09	241	Discher, D.E.	MS-10	289	Fagone, M.	GS-CM	89
Dahlberg, C.F.O.	GS-CM	61	Dłuzewski, P.	MS-09	249	Faleskog, J.	GS-CM	61
Dai, H.H.	GS-CM	45	Do, T.T.	MS-23	573	Faleskog, J.	MS-15	457
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Dai, H.-H.	MS-27	709	Domański, W.	GS-CM	95	Fanget, A.	MS-15	425
Dakshinamurthy, V.	MS-15	443	Domínguez, N.	GS-CoM	243	Farhat, N.	MS-02	3
Damanik, H.	GS-CP	155	Dommelen, J.A.W.	MS-06	149	Favier, D.	MS-04	71
D'Amore, A.	MS-10		Dommelen, J.A.W.	MS-09	269	Favier, D.	MS-28	731
Danas, K.	MS-09	265	Dommelen, J.A.W.	MS-13	361	Fayad, J.K.	MS-02	13
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Ferguson, A.	MS-07	193	Galenne, E.	GS-MM	409	Golalipour, A.	GS-DY	285
Ferguson, N.S.	MS-18	491	Gall, S.	MS-20	547	Goldhirsch, I.	MS-07	199
Fernandes, A.	GS-SM	463	Galli, M.	GS-CoM	239	Gologanu, M.	MS-15	427
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Fernandes, A.	MS-12	345	Garbe, C.	MS-08	225	Gonçalves, R.M.	MS-26	685
Fernández, J.R.	MS-05	81	Garbe, C.	MS-08	227	González, F.J.	MS-14	395
Ferreira, J.C.V.	GS-SM	483	Garcea, G.	GS-CoM	235	González, M.	MS-14	395
Ferreira, A.	MS-12	341	Garcea, G.	GS-CoM	229	Gorbatikh, L.	MS-15	453
Ferreira, A.J. M.	MS-13	363	Gardner, L.	MS-26	647	Goryacheva, I.G.	GS-CM	101
Ferreira, E.R.	MS-18	499	Gasser, T.C.	GS-CM	91	Gorzalanczyk, P.	GS-CoM	215
Feulvarch, É.	GS-CP	143	Gauchía, A.	GS-CoM	203	Gotovac, H.	GS-CoM	219
Fey, T.	MS-09	277	Gavaghan, D.J.	GS-CP	159	Gotovac, B.	GS-CoM	219
Filho, A.L.S.	MS-08	229	Geers, M.G.D.	GS-EM	315	Gottlieb, O.	MS-18	513
Fischer, F.D.	MS-09	241	Geers, M.	GS-MM	411	Graça, A.	MS-10	297
Fisette, P.	MS-02	21	Geers, M.G.D.	GS-MM	423	Graciano, C.	GS-SM	471
Fleck, N.A.	MS-09	265	Geers, M.G.D.	MS-06	149	Graciano, C.	GS-SM	491
Flídrová, K.	MS-29	749	Geers, M.G.D.	MS-06	163	Grácio, J.J.	MS-20	569
Flores, P.	GS-CoM	193	Geers, M.G.D.	MS-09	269	Grandidier, J.C.	GS-MM	425
Flores, P.	GS-CoM	227	Geers, M.G.D.	MS-13	361	Greil, P.	MS-09	277
Flores, P.	MS-02	25	Geers, M.G.D.	MS-15	435	Greiner, R.	MS-26	689
Flores, P.	MS-02	31	Gehrke, H.	MS-29	739	Grekov, M.A.	GS-CM	67
Flores, P.	MS-14	405	Gei, M.	MS-16	469	Grekov, M.A.	GS-CM	71
Flores, V.	GS-CP	161	Gei, M.	MS-27	717	Grekova, E.F.	GS-CM	77
Folgado, J.O.	MS-02	27	Geller, O. V.	GS-CoM	249	Grèze, R.	MS-04	65
Folgado, J.O.	MS-08	237	Gendelman, O.	MS-17	479	Grillo, A.	MS-25	623
Folkow, P.D.	MS-25	617	Gentil, F.	MS-08	225	Grogne, P. L.	MS-26	641
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Fourment, L.	GS-CoM	233	Ghafoori, E.	GS-DY	265	Grzegorz, N.	MS-20	557
Frączek, J.	MS-14	413	Ghafoori, E.	GS-SM	445	Guadagnini, M.	GS-SM	489
Fraser, W.B.	GS-SM	461	Ghahremani, A.R.	GS-SM	445	Guedes, R.	MS-08	235
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Freitas, M.S.R.	MS-26	697	Giang, H.	MS-12	317	Guessasma, S.	MS-03	45
Fremy, F.	GS-MM	409	Giessen, E.V.	GS-MM	401	Guidault, P.-A.	GS-MM	399
Fritzen, F.	MS-09	247	Giessen, E.V.	MS-10	303	Guilhem, Y.	MS-09	281
Fu, Y.B.	MS-27	721	Gilbert, B.	MS-26	701	Guillemain, P.	MS-18	517
Fülöp, T.	GS-CM	123	Giorgi, M. De	GS-EM	329	Guimarães, R.J.	Poster	377
Fülöp, T.	GS-MM	419	Givli, S.	MS-12	317	Guo, Z.	MS-12	327
Fülöp, T.	Poster	119	Glocker, C.	MS-05	93	Gupta, A.	MS-27	715
Fujii, F.	GS-DY	301	Glocker, C.	MS-14	405	Gurtner, G.	MS-10	301
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Haddadi, H.	GS-MM	363	Hoefnagels, J.P.M.	GS-MM	423	Jędrysiak, J.	GS-MM	395
Hadjoui, A.	GS-EM	333	Hoefnagels, J.P.M.	MS-06	149	Jehin, D.	MS-26	669
Hadjoui, F.	GS-EM	333	Hoefnagels, J.P.M.	MS-06	163	Jen, M.-H.R.	MS-03	39
Haidar, M.	GS-MM	431	Hofstetter, K.	MS-10	285	Jézéquel, L.	MS-29	749
Hajžman, M.	GS-DY	279	Holopainen, S.	GS-CM	63	Jiao, R.	MS-26	683
Hajžman, M.	GS-DY	295	Holzapfe, G.A.	MS-12	321	Jingee, B.P.	MS-06	125
Hakvoort, W.B.J.	MS-14	411	Holzapfel, G.A.	MS-12	315	Jöchen, K.	MS-09	247
Hall, S.A.	MS-15	429	Holzapfel, G.A.	MS-12	335	Johlitz, M.	MS-13	355
Halm, D.	MS-15	425	Holzapfel, G.A.	MS-12	347	Jönsson, J.	MS-26	679
Hamada, S.	MS-06	143	Hopperstady, O.S.	GS-MM	371	Jönsson, J.	MS-26	681
Hambli, R.	MS-04	73	Hor, A.	MS-06	167	Jorge, R.N.	MS-08	225
Hannachi, N.E.	MS-06	129	Hoseini, A.V.	Poster	251	Jorge, R.N.	MS-08	227
Hansson, P.	MS-06	131	Hosseiny, S.A.R.	GS-CoM	217	Jorge, R.N.	MS-08	229
Hao, L.	MS-12	343	Hron, J.	GS-CP	155	Jorge, R.N.	MS-08	233
Harich, R.	MS-07	213	Hsu, F.-C.	MS-03	39	Jorge, R.N.	MS-12	341
Hartmann, D.	GS-CoM	223	Huber, S.	MS-14	399	Jorge, R.N.	MS-12	345
Harvey, M.	MS-23	581	Hubert, O.	MS-16	475	Jorge, R.N.	MS-13	363
Hashemian, A.	GS-CoM	217	Hulka, J.	MS-06	127	Júdice, J.	MS-05	101
Heck, J.-V.	MS-23	573	Huynh, K.	MS-18	497	Jumpasut, A.	MS-08	221
Hecke, M.V.	MS-07	177	Hwang, J.-W.	GS-CoM	207	Jungblut, T.	MS-13	365
Hecke, M.V.	MS-07	183	Iannuzzo, G.	MS-03	43	Kala, J.	GS-EM	323
Hecke, M.V.	MS-07	189	Ibañez, J.R.	MS-26	675	Kala, J.	MS-26	645
Hedrih, A.N.	MS-24	591	Ibrahimbegovic, A.	GS-CoM	243	Kala, Z.	MS-26	645
Heijden, G.	MS-26	687	Idiart, M.I.	MS-09	271	Kalda, M.	MS-12	331
Hellmich, Ch.	MS-10	285	Idnurm, J.	GS-CoM	241	Kalhuri, H.	MS-03	49
Hemelrijck, D.V.	MS-03	61	Ifayefunmi, O.	GS-SM	451	Kalhuri, H.	Poster	335
Henkes, S.	MS-07	189	Igic, T.S.	Poster	601	Kalmykov, S.A.	Poster	259
Henninger, C.	MS-29	745	Ilison, L.	GS-CM	125	Kargarnovin, M.H.	MS-18	505
Henriques, M.P.	MS-20	561	Ingale, R.	MS-07	185	Karkar, S.	MS-18	521
Herkt, S.	MS-29	741	Ioffe, L.	MS-18	513	Kasimayan, T.	GS-EM	345
Herman, G.C.	GS-CM	77	Irschik, H.	GS-CM	99	Kawauchi, R.	MS-14	409
Herold, S.	GS-DY	283	Irschik, H.	GS-DY	291	Kazic, M.	GS-DY	261
Herold, S.	MS-13	365	Ito, K.	MS-06	147	Keer, L.M.	GS-CoM	225
Herrmann, H.J.	MS-07	181	Itoga, H.	MS-06	143	Kere, P.	MS-13	369
Herrmann, H.	Poster	113	Itskov, M.	MS-12	325	Kergomard, J.	MS-18	517
Herskovits, J.	MS-13	375	Itskov, M.	MS-12	333	Khalfallah, A.	MS-04	69
Herzog, P.	MS-17	481	Ivanov, T.P.	GS-CP	133	Kholodov, Y. A.	GS-CoM	249
Hess, P.	GS-MM	369	Ivanov, K.S.	MS-14	391	Khromov, A.I.	GS-CM	57
Hetzler, H.	GS-DY	305	Iwashita, D.	Poster	87	Khusnutdinova, K.R.	MS-25	621
Heuzé, T.	GS-CP	143	Iwona, N.	MS-20	557	Kienzler, R.	MS-06	115
Hild, F.	GS-MM	421	J.B. Leblond,	GS-CP	143	Kireenkov, A.A.	MS-19	543
Hild, F.	MS-10	295	J.E. Huber,	GS-CP	141	Kiselev, A.P.	GS-CM	53

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Klöcker, H.	GS-EM	321	Lacarbonara, W.	MS-24	599	Lin, J.	MS-15	441
Kloster, M.	Poster	157	Lain'e, J.P.	GS-SM	465	Lin, J.	MS-20	565
Kochmann, D.M.	GS-CM	103	Lakis, A.A.	MS-18	515	Lin, J.	MS-20	567
Koga, N.	GS-SM	485	Lamkanfi, E.	MS-03	61	Lind, P.G.	MS-07	179
Koh, T.	MS-18	507	Lanc, D.	GS-EM	317	Linn, J.	MS-14	407
Kolluri, M.	MS-06	149	Lane, D.	MS-26	687	Litvinov, R.I.	MS-10	289
Kolodziej, J.A.	GS-CoM	201	Lang, H.	MS-14	407	Liu, C.-W.	MS-03	39
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Kolotnikov, M.E.	GS-CP	153	Laniel, R.	MS-05	89	Liu, Z.	MS-25	613
Komori, K.	Poster	433	Latil, P.	MS-04	71	Liu, Z.	MS-27	713
Kondic, L.	MS-07	197	Lau, F.J.P.	MS-18	489	LLorca, J.	MS-09	251
Kondo, D.	MS-15	441	Laurent, H.	MS-04	65	Łodziana, Z.	Poster	81
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Kosidlo, U.	GS-CP	163	Lazarus, V.	GS-SM	443	Lopes, L.	GS-SM	481
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Kotani, Y.	GS-SM	485	Lazreg, S.	MS-16	475	Lopes, R.T.	MS-08	231
Kouznetsova, V.G.	MS-15	435	Le, K.C.	GS-CM	103	Lopes, D.S.	MS-02	31
Kővecses, J.	MS-02	9	Le, V.N.	GS-SM	489	Lopes, D.S.	MS-08	237
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Kowalewski, Z.L.	MS-03	41	Lebon, F.	MS-19	537	Lopes, N.	MS-26	695
Kowalsky, U.	MS-06	113	Lebrun, J.-L.	MS-06	167	Lopez-Pamies, O.	MS-27	707
Kozhushko, V.V.	GS-MM	369	Lecarme, L.	MS-15	451	Losert, W.	MS-07	217
Kozulić, V.	GS-CoM	219	Lecce, L.	MS-25	633	Louche, H.	MS-04	71
Krauskopf, B.	GS-DY	269	Lecce, L.	MS-25	637	Louche, H.	MS-28	731
Kröger, M.	GS-DY	281	Lechenault, F.	MS-07	195	Lourdin, D.	MS-03	45
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Kroon, M.	MS-12	311	Lee, K.-M.	MS-25	627	Lucariello, D.	MS-25	633
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Kruyt, N.P.	MS-07	201	Leine, R.	MS-14	405	Lugner, P.	MS-29	747
Kuciej, M.	MS-28	733	Leine, R.I.	MS-19	529	Lukassen, L.	GS-CoM	175
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Kumar, S.	GS-MM	407	Lenzi, F.	MS-25	635	Lyubicheva, A.N.	GS-CM	101
Kurz, T.	MS-29	745	Leonardo, L.	GS-CoM	235	Mace, B.R.	GS-CoM	231
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Kuss, F.	MS-19	537	Leu, S.-Y.	GS-CM	127	Maciag, A.	GS-CoM	189
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Kvasha, O.	MS-25	611	Li, J.-B.	GS-CM	41	Maciejewska, B.	GS-CoM	191
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Kwak, H.-G.	GS-SM	457	Li, Z.	MS-25	613	Magnucka-Blandzi, E.	MS-13	367
Kwaky, J.-H.	GS-SM	457	Lima, I.	MS-08	231	Magnucki, K.	GS-CoM	211
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Majmudar, T.S.	MS-07	203	Maugin, G.A.	MS-16	465	Mokrani, B.	GS-DY	263
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Mal, A.	MS-25	607	Maurini, C.	GS-SM	463	Moleiro, F.	MS-13	379
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Mal, A.K.	MS-25	633	Mauritsson, K.	MS-25	609	Möller, M.	MS-19	539
Malcher, L.	MS-06	159	Mauritsson, K.	MS-25	617	Monaco, E.	MS-25	631
Malcher, L.	MS-06	165	Mayer, D.	GS-DY	283	Monaco, E.	MS-25	633
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Mamandi, A.	MS-18	505	Maz'ya, V.	MS-03	51	Monchiet, V.	MS-15	441
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Martínez, R.	MS-05	81	Melzi, S.	MS-29	751	Morenko, A.	Poster	455
Martínez-Reina, J.	MS-02	5	Melzi, S.	MS-29	753	Mori, N.	MS-06	147
Martins, J. M.	MS-02	15	Menezes, L.F.	GS-SM	475	Morita, N.	Poster	87
Martins, J.M.	MS-02	17	Menezes, L.F.	MS-04	65	Motz, C.	MS-09	263
Martins, P.A.F.	MS-04	67	Menezes, L.F.	MS-04	73	Motz, C.	MS-09	267
Martins, J.A.C.	MS-05	87	Menezes, L.F.	MS-06	147	Moulia, B.	GS-DY	277
Martins, P.	MS-08	225	Menshykov, O.V.	GS-CoM	197	Movchan, A.	MS-03	51
Martins, P.A.L.S.	MS-08	227	Menzel, A.	GS-CP	151	Movchan, A.B.	MS-06	145
Martins, P.	MS-12	341	Meola, C.	MS-25	625	Mueller, S.	MS-20	547
Martins, P.G.	MS-13	353	Merassi, A.	GS-MM	405	Münch, I.	GS-CP	141
Masaki, K.	MS-06	109	Mergheim, J.	GS-CM	109	Muha, I.	MS-25	623
Mascarenhas, T.	MS-08	229	Mergheim, J.	MS-15	445	Mullin, T.	MS-27	723
Mascarenhas, T.	MS-08	233	Meschke, G.	MS-12	313	Munteanu, M.G.	GS-CoM	179
Mascarenhas, T.	MS-12	341	Metayer, J.-F.	MS-07	191	Muracciole, J.-M.	MS-28	727
Mascarenhas, T.	MS-12	345	Mezeix, L.	MS-10	291	Muradova, A.D.	MS-05	97
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Mata, V.	MS-02	7	Mikkola, A.	MS-14	395	Musienko, A.	MS-09	261
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Naya, M.A.	MS-29	737	Osipov, M.N.	Poster	339	Périé, J.-N.	MS-15	447
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Nielsen, K.L.	GS-CoM	253	Paoluzzi, M.	MS-09	279	Pimenta, R. J.	MS-26	661
Nieves, M.	MS-03	51	Paquet, D.	MS-15	443	Ping, Y.	MS-10	291
Nine, B.	Poster	459	Pardo, T.	MS-15	451	Pinhede, C.	MS-17	483
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Porcar, L.	MS-10	305	Reimers, W.	MS-20	547	Ronel, S.	GS-SM	465
Portal, R.J.F.	MS-02	29	Reina, S.	GS-CM	59	Rong, B.	MS-14	385
Portal, R.	MS-14	415	Reinicke, U.	GS-SM	477	Roos, A.	GS-EM	341
Porubov, A.V.	GS-CM	47	Reis, P.M.	MS-07	185	Roque, C.M.C.	MS-13	363
Posch, M.	Poster	429	Rejovitzky, E.	GS-MM	393	Rosa, D.	MS-02	3
Potier-Ferry, M.	MS-09	259	Relvas, C.	GS-CoM	193	Rosario, H. de	MS-02	7
Pötschke, P.	MS-03	59	Remmersy, J.J.C.	MS-07	183	Rosati, L.	GS-CP	167
Potter, J.	GS-DY	289	Rémy, L.	GS-MM	385	Rousseau, M.	GS-CM	55
Potter, J.	GS-DY	289	Rémy, L.	MS-23	581	Roux, J.C. Le	GS-EM	343
Pozzo, D.	MS-10	305	Renouf, M.	GS-CM	69	Roux, S.	MS-10	295
Prado, Z.	MS-18	487	Řeřicha, P.	Poster	429	Roux, St.	MS-15	447
Preumont, A.	GS-DY	263	Rester, M.	MS-09	267	Roza, T.	MS-08	229
Pronina, Y.G.	GS-SM	467	Retraint, D.	GS-EM	341	Rui, X.	MS-14	385
Proppe, C.	MS-23	585	Ribeiro, D.B.	GS-CoM	177	Rupil, J.	MS-23	577
Proudhon, H.	MS-09	281	Ribeiro, N.S.	MS-08	237	Rusinko, A.	GS-CM	49
Providência, P.	MS-26	693	Ribeiro, P.	MS-18	503	Rutecka, A.	MS-03	41
Puckett, J.G.	MS-07	195	Ribeiro, P.	MS-18	511	Ryzhak, E.	GS-CM	51
Purcell, S.T.	MS-18	501	Ribeiro, P.	MS-25	619	Ryzhkov, O.I.	GS-MM	367
Purohit, P.K.	MS-10	289	Ribis, J.	MS-09	275	Sá, J.M.A.C.	MS-06	159
Queiroz, G.	MS-26	661	Ricaud, B.	MS-18	517	Sá, J.M.A.C.	MS-06	161
Queiroz, G.	MS-26	653	Ricci, F.	MS-25	631	Sá, J. M.A.C.	MS-06	165
Quesada, A.	GS-CoM	203	Ricci, F.	MS-25	633	Saanouni, K.	MS-06	129
Quey, R.	MS-09	261	Rice, H.	MS-18	509	Saarloos, W.V.	MS-07	183
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Radjai, F.	MS-19	541	Ricker, S.	MS-09	277	Sabbioni, E.	MS-29	753
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Rajagopal, K.R.	GS-MM	415	Ringwelski, S.	MS-13	381	Sadeghpour, M.	GS-DY	265
Rajaonah, R.R.	GS-SM	449	Ristinmaa, M.	GS-CP	151	Saleme, C.S.	MS-08	229
Raka, B.	GS-EM	343	Ritto-Corrêa, M.	MS-26	685	Salgado, D.R.	MS-02	33
Rakotomanana, L.R.	GS-SM	449	Rixen, D.J.	MS-15	431	Salupere, A.	GS-CM	125
Ramalho, A.	GS-SM	475	Rjafiallah, S.	MS-03	45	Salvo, L.	MS-10	299
Ramalho, A.L.	MS-14	417	Roccabianca, S.	MS-27	717	Samimi, M.	MS-13	361
Ramault, C.	MS-03	61	Rocha, A.B.	MS-06	161	Samin, J.C.	MS-02	21
Ramesh, K.	GS-EM	345	Rocha, T.M.	MS-20	563	Samsonov, A.M.	MS-25	621

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Sano, Y.	MS-06	109	Shiiba, T.	MS-14	409	Soares, C.M.M.	MS-13	353
Santos, G.F.	MS-06	133	Shimatani, Y.	MS-06	111	Soares, C.A.M.	MS-13	353
Santos, A.D.	MS-06	161	Shiozawa, K.	MS-06	111	Soares, C.M.M.	MS-13	363
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Santos, N.	MS-14	415	Shodja, H.M.	MS-09	253	Soares, C.A.M.	MS-13	375
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Sanzi, H.	Poster	157	Shufrin, I.	MS-26	677	Soares, C.A.M.	MS-13	379
Sartorelli, J.C.	MS-24	599	Shzu, M.A.M.	MS-06	169	Sobczyk, K.	MS-23	579
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Satoh, T.	GS-DY	301	Silva, S.F.	GS-EM	331	Sohrabpour, A.	GS-CoM	217
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Schafer, B.W.	MS-26	643	Silva, M.T.	MS-02	27	Sousa, L.A.G.	MS-02	29
Schafer, B. W.	MS-26	673	Silva, M. T.	MS-02	31	Sousa, L.	MS-14	415
Schäfer, M.	GS-CoM	175	Silva, M.B.	MS-04	67	Sousa, R.J.A.	MS-20	561
Schatzman, M.	MS-05	95	Silva, J.G.S.	MS-06	133	Sousa, R.J.A.	MS-20	569
Scherer, M.	MS-20	559	Silva, L.F.M.	MS-08	223	Souza, F.T.	MS-26	697
Scheyvaerts, F.	MS-15	451	Silva, M.T.	MS-14	419	Spector, A.A.	MS-10	293
Schiehlen, W.	MS-29	745	Silva, F.	MS-18	517	Speianu, T.	GS-CoM	185
Schindler, T.	MS-19	533	Silva, L.A.P.S.	MS-26	655	Sperl, M.	MS-07	207
Schlosser, P.	MS-28	731	Silva, J.G.S. da	MS-26	671	Stålhand, J.	MS-12	315
Schmidt, U.	MS-09	277	Silva, L.S.	MS-26	695	Stanciu, A.E.	Poster	325
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Schröder, R.	MS-06	115	Simões, J.A.	GS-CoM	227	Steinmann, P.	GS-CM	109
Schröter, M.	MS-07	191	Simões, F.J.P.	MS-20	569	Steinmann, P.	MS-16	471
Schumacher, K.R.	MS-10	293	Simone, A.	MS-15	431	Steinwolf, A.	GS-DY	303
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